

Prof. Dr. Fareha Asim

PhD (Textile)
M. Engg. (Textile)
B.E. (Textile)

NED/HEC Approved PhD
Supervisor

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Skills

Design of Experiment
Process Optimization
Statistical Process Control
Analytical Skills
Functional Textiles
Printing & Finishing
Curriculum Design
Performance Assessment
Thesis Advisement
Academic Research

Objective

To maintain professional excellence, embrace challenges, and turn the seemingly impossible into reality.

Summary

Gold medalist of B.E. (Textile); M. Engg. (Textile); PhD in Textile Engineering with focus on functional textiles from NED UET. More than 21 years of teaching including 13+ years of research experience; currently working as A Professor at Department of Textile Engineering, NEDUET since October 2025; Certified Cluster Development Agent from UNIDO; trainer of various certification programs; Teaching undergraduate, Masters and PhD level classes; Supervised 38 final year design projects and 02 PhD scholars. Active Researcher in the domain of dyeing, printing, finishing and functional textiles; have authored 27 Peer-Reviewed Journal articles, 05 Conference communications and a Book chapter; Editorial Board Member of Journal of Scientific Research; Reviewer of Coloration Technology, Textile Research Journal and AATCC Journal of Research. Secured various projects funding of over PKR 13 million and PKR 16 million as Team Leader District Badin under PAIDAR program, UNIDO; Established the first departmental research Lab from the PhD funding of PKR 9.34 million; Fluent in English and Urdu; Experienced in developing course curricula as well as formal and informal methods of teaching to create multi-layered web of learning incorporating experiments, practical activities, discussions and projects into lessons. Building foundations for next generation of academics and workforce pioneers.

Education

2008 - 2011

Ph. D: Textile

NED University of Engineering and Technology - Karachi-Pakistan

- Awarded PhD scholarship
- Completed PhD Thesis "Development of a combined process for reactive printing and crease resistance finish for cotton fabric using experimental design technique" in minimum time.
- **CGPA: 4**

Research & Development
Critical Thinking
Problem Solving
Leading Skills
Teaching
Student Research Guidance

Languages

English
Fluent

Urdu
Fluent

2004 - 2005

M. Engg: Textile

NED University of Engineering and Technology - Karachi-Pakistan

- Professional development completed in Masters of Engineering (Textile)
- **CGPA: 3.75**

1999 - 2003

B.E: Textile

NED University of Engineering and Technology - Karachi-Pakistan

- Professional development completed in Bachelors of Engineering (Textile)
- **Awarded a Gold Medal**
- **Secured first class first position in all four years of B.E (Textile)**

1998 - 1999

H.S.C: Engineering

Sir Syed Govt. Girls College - Karachi-Pakistan

Secured A Grade

1996 - 1997

S.S.C: Science Education

H. N. Public School - Karachi-Pakistan

Secured A one Grade

Work History

Oct. 2025
Onwards

Professor

NED University of Engineering & Technology, Karachi

2012- Sept
2025

Associate Professor

NED University of Engineering & Technology, Karachi

- Helped over 120 students per semester to develop and demonstrate broad, integrative and specialized textile engineering knowledge, essential habits of mind, communicative fluency and effective problem-solving skills.
- Encouraged class discussions by building discussions

into lessons, actively soliciting input, asking open-ended questions and using techniques to track student participation.

- Shifted between informal and formal methods of teaching to create multi-layered web of learning incorporating experiments, practical activities, discussions and projects into lessons.
- Used variety of learning modalities and support materials to facilitate learning process and accentuate presentations.
- Sustained professional contact with colleagues and engaged in continuing professional activities to upgrade and augment existing skills or develop new ones.
- Kept abreast of advances in pedagogy and work to continuously improve teaching methods and introduce new approaches to instruction.
- Enhanced effectiveness of curriculum and lectures using computer-assisted instruction programs and audio-visual equipment.
- Mentored students and advised on career paths, degree requirements and post-graduate education options.
- Made contributions in curricular development and innovation in teaching strategies.
- Collaborated with faculty and community stakeholders for program improvement.
- Facilitated mock job interviews for student skill-building and promoted potential networking opportunities.
- Conducted on-going program assessment, enrollment and retention tracking.
- Supported multidisciplinary research teams focused on scholarly publication.
- Developed diversified course curriculum to meet regulatory standards and support learning objectives.
- Identified research opportunities for students,

assisting with gathering data and drawing conclusions for projects.

- Provided consultancy services to Textile industries.
- Supervising PhD scholars.
- Completed various research projects.
- Conducted professional certification training program.
- Represented NED on various international forums such as The United Nations Industrial Development Organisation (UNIDO), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) etc.
- Involved in teaching of Bachelors, Masters and PhD students of Textile Engineering.

2008 - 2012

Assistant Professor

NED University of Engineering and Technology, Karachi

- Provided logical integration and continuity analytical skills training and assessment across 4-year curriculum.
- Applied innovative teaching methods to encourage student learning objectives.
- Collaborated with colleagues on curriculum revision, evaluation of course syllabi and lesson plans for Textile Engineering curriculum.
- Mentored students and communicated internship and employment opportunities.
- Contributed to campus activities to promote positive university image.
- Created materials and exercises to illustrate application of course concepts.
- Collaborated with faculty members on undergraduate design projects.
- Evaluated and supervised student activities and performance levels to provide reports on academic progress

2004 - 2008

Lecturer

NED University of Engineering & Technology, Karachi

- Evaluated and revised lesson plans and course content to achieve student-centered learning.
- Mentored over 50 undergraduate students per year in effective next-steps for education and career preparedness.
- Arranged syllabus, developed schedule and determined reading list for varied courses simultaneously, giving students appropriate time to complete assignments and absorb information.
- Delivered lectures at appropriate pace and pronunciation for optimal audience comprehension by non-native English-speaking students.
- Created and designed quizzes, tests and projects to assess student knowledge.
- Implemented instructional technologies in course delivery to engage and educate students.
- Applied innovative teaching methods to encourage student learning objectives.
- Stayed abreast of developments within Textile Engineering to improve curriculum, develop new research and share with colleagues and students.
- Created positive and safe learning environment for students by setting and enforcing classroom code of conduct.
- Reviewed program materials and coordinated updates to keep department materials relevant and accurate.
- Designed and distributed lecture handouts to round out material and increase student understanding.

Honours, Professional Achievements and Contributions:

- Conducted a four-day professional certification program as a trainer, **“Sustainable Production Practices for Professionals(A Complete Toolkit)”** for **Deutsche Gesellschaft fr Internationale Zusammenarbeit (GIZ) GmbH** on 15-16 & 22-23 February 2025.

- Nominated by NED as a **lead trainer** to conduct a **Dawlance Tech-Pro Certification Program Module 7: Advance Statistics**. (2025)
- Secured **PKR 13.05 million** funding through various research projects. (2012-2024)
- Selected by NED as Team Member of **Deutsche Gesellschaft fr Internationale Zusammenarbeit (GIZ) GmbH** as Local Service Provider (LSP). (2024)
- Nominated by NED to participate as a **local service provider** for **GIZ** in “**Textile Connect - Navigating Towards Sustainable Production Using Local Expertise arranged**” by **GIZ** at Karachi. Only two Faculty Members were selected. (Nov. 2024)
- Conducted a three day professional certification program as a trainer “**Dialogue for Sustainability**” for **Deutsche Gesellschaft fr Internationale Zusammenarbeit (GIZ) GmbH** on 03-05 September 2024 and received a letter of appreciation from GIZ head office.
- Nominated by NED to participate as a **local service provider** for **GIZ** in “**Textile Connect - Navigating Towards Sustainable Production Using Local Expertise arranged**” by **GIZ** in Lahore. Only two Faculty Members were chosen. (July 2024)
- Nominated by NED to participate in the workshop “**Dialogue for Sustainability – Due Diligence**” organized by **GIZ** at Karachi. Only two Faculty Members were designated. (June 2024)
- Designated by NED to attend the **Communities of Practice (CoP) 2.0**, workshop focusing on “**Promoting Employment by Strengthening the Role of Women (WE)**” and “**Textiles II**” arranged by **GIZ** in Lahore. Only two faculty members were chosen for this opportunity. (May 2024)

- As Project Supervisor, received funding of **PKR 119,857** on a student project titled "Investigating the Ways to Produce Regenerated Lyocell Fiber from Post-Consumer Cotton Waste" from NEDAASC, USA. (2023-2024)
- Nominated by NED to participate in the six-week international training on **Cluster Development Methodology** organized by **The United Nations Industrial Development Organisation (UNIDO)** under the **Poverty Alleviation and Inclusive Development Across Rural Sindh (PAIDAR)** funded by the European Union (EU) to support the Sindh Government in the implementation of its Poverty Reduction Strategy (PRS). Only three faculty members from NED have attended this international training up till now. (2023)
- Under PAIDAR as a Team Leader for District Badin presented **five business proposals** to the panel members of **UNIDO** and was honoured with three titles "**Best Team Leader**", "**Best SWOT Analysis**" and "**Best Strategy & Action Plan**" by the lead Trainer Mr. Peter Hurst and Mr. Vedat Kunt, Senior International Expert from UNIDO. (2023)
- Four business proposals out of five have approved for funding of **PKR 16 million** by the **UNIDO** for district Badin. (2023)
- Serving as an **Associate Editor** for the "**Journal of Scientific Research**" since August 2023.
- Presented a sustainable and eco-friendly mask project made from bamboo/cotton knitted fabrics at the **Second Sindh Research and Technology Showcase 2023**.
- Awarded **Best Researcher Award** for **three consecutive years (2020, 2021 & 2022)** by NED University of Engineering & Technology.

- Completed a research project on the **development of PPE using bamboo/cotton knitted fabrics.** (2022)
- Nominated by NED in **E-Learning 2022 Bilateral Seminar List for Pakistan under China Aid** organized by **Economic Affairs Division, Government of Pakistan.** Only two faculty members from the University were selected. (2022)
- Provided consultancy services to various Textile Industries such as **Soorty Enterprises, Midas Safety & Clothing, Amna Industries & Artistic Milliners.**
- Collaborated with Soorty Enterprises to develop **Self-Cleaning Denim.** (2021)
- Conducted **Water Analysis of Effluent Treatment Plant** of Soorty Enterprises. (2020)
- Departmental focal person for the Memorandum of Understanding (MoU) signed between **Soorty Enterprises Pvt. Ltd. and NED University.** (2020)
- Successfully led the **National Innovation Basket (NIB)** event in the 5th DICE Textile Innovation Event. (2020)
- Co-chaired the technical session at the **4th NED International Textile Conference.** (2020)
- Secured funding for the **DICE Shark Project** at the NED DICE Textile Innovation Event for the project **“Development of Self-Cleaning Textile Material Using Natural-Based Nanoparticles.”** (2020)
- Earned various **financial rewards** for publishing research papers in international journals listed in JCR from NED University of Engineering & Technology. (2016-2025)
- Co-supervised a Ph.D. research project titled **“Experimental Investigation and Mathematical Modeling of Pilling Performance of Bamboo/Poly Woven Fabrics.”** (2014-2019)
- Served as a **reviewer** for prestigious international journals, including the **Textile Research Journal, AATCC**

- Journal of Research**, and others. (2018 till date)
- Nominated by the Department of Textile Engineering to assist Amna Industries in estimating the boiler capacity for their new dyeing unit. (2018)
 - Faculty Advisor of **American Association of Textile Chemist & Colorists (AATCC) NED Chapter** Since 2013 and received a letter of recognition from **AATCC, USA**. (2018)
 - Awarded the **Crescent Award** at the **2nd All Pakistan DICE Textile Innovation Event** for the project **“Modification in Condensate Recovery System of Cylinder Dryers”** by **National Textile University**. (2017)
 - Departmental focal person for the Memorandum of Understanding (MoU) signed between **Midas Safety & Clothing and NED University**. (2016)
 - Completed a consultancy project on **Dyneema yarn/liner dyeing using conventional techniques** for Midas Safety Clothing (Pvt.) Ltd. (2016)
 - Conducted a technical seminar on **Energy Conservation Methodologies for Wet Processing industries** in Textile Asia. (2016)
 - Conducted a Seminar on **Energy Management in Textile Industry** Organized by **Textile Commissioner’s Organization, Ministry of Textile**. (2015)
 - Organized and participated in technical and publication committees of various **NED International Textile Conferences** (2014, 2016, 2018, 2020 & 2022).
 - Awarded second prize on presenting a research paper under the **“Young Researcher Award”** at **5th International Technical Textiles Conference** organized by **Textile Institute of Pakistan**. (2012)
 - Participated in the International Conference on **Systems Engineering and Engineering Management at the World Congress on Engineering and Computer**

Science, held in October 2011 in San Francisco, USA.

- Participated in the research workshop “**Citation & Referencing in Research Using Endnote X4**” at The University of Lahore organized by Institute of Research Promotion. (2011)
- Achieved **Very Good to Excellent** student feedback ratings in undergraduate and postgraduate courses at NED University over several years.
- Awarded a **Ph.D. scholarship** worth **Rs. 9.34 million** by NED and established the first **Textile Research Laboratory** in Department of Textile Engineering. (2008 - 2012).
- Participated in the three days professional training course “**ISO/IEC 17025 Laboratory Quality Management System**” organized by Pakistan Institute of Quality Control. (2008)
- Participated in the conference on “**Teaching Textiles**” organized by Textile Institute of Pakistan and received a letter of appreciation. (2006)
- Participated in the training program on “**Development of Quality Supervisors for Garment Industry**” organized by SMEDA. (2005)
- Participated in the training program on “**Production Management for Garment Industry**” organized by SMEDA. (2004)
- Secured **first-class first position** throughout the B.E. Textile program and awarded a **Gold Medal** for academic excellence. (2004)

Consultancy Services

- Soorty Enterprises
- Midas Safety & Clothing
- Amna Industries

Professional Memberships

- Senior Member of **American Association of Textile Chemists & Colorists (AATCC), USA.**
- Corporate member of **Society of Dyers & Colorists (SDC), UK.**
- Professional Engineer of **Pakistan Engineering Council (Lifetime Member).**
- Member of **International Association of Engineers (IAENG).**
- Member of **Institution of Engineers (IEP), Pakistan.**

PhD Supervision

- Supervisor of “**Characterization of Polyester micro-plastic pollution from textiles and development of various mitigation techniques**”. (In Progress)
- Co-Supervisor of “**Experimental Investigation and Mathematical Modeling of Pilling Performance of Bamboo/Poly Woven Fabrics**”. (Completed)

Publications

Journal Publications

1. **Asim, F.**, Naeem, F. and Naqvi, S. (2025), "Harnessing the potential of regenerated bamboo knitted fabrics in development of eco-friendly masks", Pigment & Resin Technology, Vol. 54 No. 1, pp. 73-86. <https://doi.org/10.1108/PRT-05-2023-0036>. (**Listed in JCR**)
2. **Asim, F.** and Naeem, F. (2024). "Unmasking the power of metal oxide nanoparticles for self-cleaning heavy denim: Investigating and optimizing process parameters", Cellulose Chemistry and Technology.

Vol. 58, pp. 879-890.
<https://doi.org/10.35812/CelluloseChemTechnol.2024.58.77>. (Listed in JCR)

3. Amir, M. and **Asim, F.** (2024), "Unveiling the dynamics of seam performance: a regression analysis approach for predictive modeling", *Engineering Research Express*, 6(2), <https://doi.org/10.1088/2631-8695/ad4a25>. (Listed in JCR)
4. Mohtashim, Q., Farooq, S. and **Asim, F.** (2024), "Investigation of process parameters for eco-friendly indigo dyeing of cotton fabric with reducing sugars", *Pigment & Resin Technology*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/PRT-07-2023-0068>. (Listed in JCR)
5. Naeem, F., **Asim, F.**, Naqvi, S., and Tufail, M. (2024), "Investigation of mechanical properties of bio-finished regenerated bamboo fabrics using 23 31 mixed level factorial design", *Mehran University Research Journal of Engineering and Technology*, 43(1), 142-153. doi:10.22581/muet1982.2401.2875. (Listed in JCR)
6. Mohtashim, Q., **Asim, F.** and Naeem, F. (2023), "Investigation into an Eco-Friendly Reactive Dyeing Process of Cotton Fabrics Using an Ethanol-Water Mixture Through Design of Experiment", *Cellulose Chemistry and Technology*. 57 (5-6), 645-655. <https://doi.org/10.35812/CelluloseChemTechnol.2023.57.59>. (Listed in JCR)
7. Naeem, F., **Asim, F.** and Tufail, M. (2023), "Investigation into the effect of resin finish on the functional characteristics of plain fabrics using

- different curing methods", *Pigment & Resin Technology*, Vol. 52 No. 2, pp. 192-202. <https://doi.org/10.1108/PRT-09-2021-0110>. (Listed in JCR)
8. Mohtashim, Q., **Asim, F.** and Farooq, S. (2023), "Investigation and optimisation of process parameters for the green chemistry colouration using banana bio-resources waste", *Pigment & Resin Technology*, 52(6), 705-713., <https://doi.org/10.1108/PRT-01-2022-0006>. (Listed in JCR)
 9. **Asim, F.** and Naeem, F. (2023), "Investigation of self-cleaning attributes of denim fabric modified with naturally synthesized ZnO nanoparticles", *Pigment & Resin Technology*, Vol. 52 No. 6, pp. 738-746. <https://doi.org/10.1108/PRT-04-2022-0042>. (Listed in JCR)
 10. Naeem, F., **Asim, F.** and Tufail, M. (2022); Performance Evaluation of Anti Pilling and easy-Care Finished Rayon and rayon/Cotton Satin Fabric, "Journal of Natural Fibers 19(3), 1033–1047, <https://doi.org/10.1080/15440478.2020.1787912>. (Listed in JCR)
 11. Farooq, S., Faisal, S. and **Asim, F.** (2022), Investigating the Liquid Moisture Transport Behavior of Cotton and polyester Cotton Blended Woven Fabric, "Mehran University Research Journal of Engineering & Technology", Vol. 41, No. 1, 129 - 134, Jan 2022, <https://doi.org/10.22581/muet1982.2201.13>. (HEC recognized Category "X" Journal)
 12. Naeem, F., **Asim, F.** and Tufail, M. (2022); Multi response optimization in the development of anti-pilling and easy care finished rayon from bamboo and bamboo/cotton fabrics using desirability

function, "Mehran University Research Journal of Engineering & Technology", 41(2), 116-126, Apr 2022, <https://doi.org/10.22581/muet1982.2202.11>. (HEC recognized Category "X" Journal)

13. Mohtashim, Q., **Asim, F.** and Farooq, S. (2021), After treatments of Sulphur Black 1 Dyed Cotton fabric: Optimisation of Process Parameters for developing a protective system to improve the color retention, AATCC Journal of Research, 8(1), 33-39, Jan 2021, <https://doi.org/10.14504/ajr.8.1.5>. (Listed in JCR)
14. Naeem, F., **Asim, F.** and Tufail, M. (2021), "Effect of crosslinking agents on the strength characteristics of cellulosic fabrics using 23 32 mixed level factorial", Pigment & Resin Technology, Vol. 50 No. 4, pp. 319-330. <https://doi.org/10.1108/PRT-06-2020-0062>. (Listed in JCR)
15. Farooq, S., **Asim, F.**, Hussain, S. and Faisal, S. (2021), Investigation Onto the Effect of Surface Etching Using Chemical Etchants on The Dye-Ability of UHMWPE Fibre, "Mehran University Research Journal of Engineering & Technology", 40(4), 842-846, Oct 2021, <http://dx.doi.org/10.22581/muet1982.2104.13>. (HEC recognized Category "X" Journal)
16. Naeem, F., **Asim, F.** and Tufail, M. (2020); Anti Pilling and Resin Finishing of Rayon and Rayon/Cotton fabrics using 23.32 Mixed Level Factorial Design, AATCC Journal of Research, 7(5), 32-37, Sept 2020, <https://doi.org/10.14504/ajr.7.5.5>. (Listed in JCR)
17. Naeem, F., **Asim, F.** and Tufail, M. (2018); Pilling Performance Improvements of Fabrics made with Bamboo Rayon and Bamboo Rayon/Cotton Blends, "AATCC Journal of Research, 5(6), 8-16, Nov 2018, <https://doi.org/10.14504/ajr.5.6.2>. (Listed in JCR)

18. **Asim, F.** and Mahmood, M. (2017); Effects of Process Parameters on Ozone Washing for Denim using 33 Factorial Design, "Mehran University Research Journal of Engineering & Technology 36(4), 909-914, Oct 2017, <https://doi.org/10.22581/muet1982.1704.15>. (HEC recognized Category X Journal)
19. **Asim, F.** and Mahmood, M. (2017); Statistical Modeling of Tear Strength for One Step Fixation Process of Reactive Printing and Easy Care Finishing, "Mehran University Research Journal of Engineering & Technology", 36(3), 511-518, July 2017, <https://doi.org/10.22581/muet1982.1703.08>. (HEC recognized Category X Journal)
20. **Asim, F.** and Mahmood, M. (2013); Mathematical Modeling of Dry Crease Recovery Angle for Single Step Fixation of Reactive Printing and Crease Resistance Finishing of Cotton Fabric using DOE, "International Journal of Textile Science", 2(3), 59-71, June 2013, doi:10.5923/j.textile.20130203.03. (Peer-reviewed International Journal)
21. **Asim, F.** and Mahmood, M. (2013); Mathematical Modeling of Colour Yield for Single Step Fixation of MCT Reactive Dye Printing and Crease Resistance Finishing of Cotton Fabric, "International Journal of Statistics and Applications", 3(2), 22-32, Apr 2013, doi: 10.5923/j.statistics.20130302.02. (Peer-reviewed International Journal)
22. **Asim, F.**, Kausar, N. and Mahmood, M. (2013); Reaction Mechanism of Single Step Fixation Process of Reactive Printing and Crease Resistance Finishing of Cotton Fabrics, "International Journal of Textile Science", 2(2), 26-29, Apr 2013, doi:10.5923/j.textile.20130202.02. (Peer-reviewed International Journal)

23. **Asim, F.** and Mahmood, M. (2013); Effects of Process Parameters on Single Step Fixation of Reactive Printing and Crease Resistance Finishing of Cotton Fabrics using 23 Factorial Design, "International Journal of Textile Science", 2(1), 7-11, Feb 2013, doi:10.5923/j.textile.20130201.02. (Peer-reviewed International Journal)
24. **Asim, F.** and Mahmood, M. (2012); Reactive Printing and Crease Resistance Finishing of Cotton Fabrics- Effects of Fixation Modes by 22.41 Mixed Factorial Design "International Journal of Textile Science", 1(6), 94-100, Dec 2012, doi: 10.5923/j.textile.20120106.06. (Peer-reviewed International Journal)
25. **Asim, F.** and Mahmood, M. (2012); Multi response optimization of simultaneous fixation of reactive printing and crease resistant finishing using desirability function "International Journal of Statistics and Applications", 2(6), 126-131, Dec 2012, doi: 10.5923/j.statistics.20120206.06. (Peer-reviewed International Journal)
26. **Asim, F.**, Mahmood, M. and Siddiqui, M. A. (2012), Optimization of process parameters for simultaneous fixation of reactive printing and crease resistant finishing, "Journal of Textile and apparel Technology Management", 7(3), 1-12, Spring 2012. (Peer-reviewed International Journal)
27. **Asim, F.** and Mahmood, M. (2011), Reactive printing and crease resistance finishing of cotton fabrics, Part-I Study of influential factors by an experimental design approach, "Journal of Textile and apparel Technology Management" 7(1), 1-10, Spring 2011. (Peer-reviewed International Journal)

Conference Proceedings:

1. **Asim, F.**, Investigation of self-cleaning properties of denim fabric with Nano formulation, Presented in 5th NED International Textile Conference (ITC) on Nov 16-17, 2022.

2. Naeem, F., **Asim, F.** and Tufail, M., Investigation to improve the pilling & wrinkle resistance properties of Bamboo and Bamboo/cotton fabrics, Presented in 4th NED International Textile Conference (ITC) on Mar 03-04, 2020.

3. Naeem, F., **Asim, F.** and Tufail, M., Effect of Sanforizing on Pilling Resistance of Bamboo and Bamboo Cotton Fabric, using 24 Factorial Design, Presented in 5th International Conference on Value Addition and Innovation in Textiles (COVITEX) Mar 20-21, 2019 National Textile University, Faisalabad.

4. Naeem, F., **Asim, F.** and Tufail, M., Bio polishing Of Bamboo and Bamboo/Cotton Woven Fabrics Using Experimental Design Technique, Presented in 2nd International Forum of Textile for graduate students, Tianjin Polytechnic University, China on Sept 08-10, 2018.

5. **Asim, F.**, Mahmood, M. and Siddiqui, M. A. (2011), Optimization of process parameters for simultaneous fixation of reactive printing and crease-resistant finishing using desirability function, "Proceedings of the World Congress on Engineering and Computer Science 2011 Vol. II", San Francisco, USA, 1098-1105, Oct 2011.

Book Contribution:

Ali, S., **Asim, F.**, Azam, F. and Ahmad, S., Nanoparticles integrated self-cleaning textiles, Nanoparticles

Additional Responsibilities

Editorial Board Member of Sumerianz Journal of Scientific Research

- Reviewing the manuscripts.
- Help in selection of quality papers.
- help in indexing the journal in valued agencies.

Cluster Development Agent, United Nations Industrial Development Organization (UNIDO)

- Participated in continuous improvement by generating suggestions, engaging in problem-solving activities to support teamwork of District Badin.
- Conducted research, gathered information from multiple sources and presented five business proposals related to district Badin.

Member Duty Society

- To lead money to the indigent and promising students of the University Qarz-e-Hasana without giving any preference to any class of student like Refugees, Agriculturists or minorities but the son's and dependents of the members or those deceased members who paid their subscription regularly in their life-time, will have first preference provided they're promising also.
- To realize money of the society back from the benefited students within a reasonable period of their

employment.

Team Member of Dawlance Tech-Pro Certification Program

Team Member of Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH as Local Service Provider (LSP)

- OBE Coordinator;**
- Member **BOR(Medical);**
- Faculty Advisor of **NED Girls Affairs Society;**
- Faculty Advisor of **American Association of Textile Chemist & Colorists (AATCC) NED Chapter;**
- Assessor of **PhD Entrance Test Exam;**
- Member of departmental **OBE Accreditation Committee;**
- Senior Faculty Member of **Ehsaas Undergraduate Scholarship Programme;**
- Member **Anti-Drug and Tobacco Abuse Committee;**
- Departmental focal person for the MoU signed between **Soorly Enterprises Pvt. Ltd. and the NED University;**
- Program team member of **SAR Textile (B.E, Masters & PhD);**
- Focal person of **library from Department of Textile Engineering;**
- Member of **curriculum revision committee** of BE and BS Textile program;
- Supervision of **final year design projects;**
- Examining **Independent Study Projects** at Master's level;
- Industrial liaison** (arrangement of internships, guest lectures and industrial visits);
- Industrial liaison (industrial visits for **developing research linkages**);
- Class Advisor and Student Counsellor** to assist and guide students in their day-to-day matters;

- Was In-charge of **Dyeing & Finishing Lab, Green Society, Store and TIPC;**
- Area Coordinator;**
- Member of **Board of Study (Textile);**
- Member of **Board of Review (DIL) and Duty Society;**
- Member **Project Committee;**
- Member of Organizing Committee **“NED International Textile Conference”;**
- Member of **BS Textile Program Development Committee;**
- Member of **Examination Review Committee.**

Engineering Courses Taught

Undergraduate level:

- TE-424: Textile Printing
- TE-307: Utilities for Textile Industry
- TE-451: Automation and Controls in Textile
- TE-305: Quality Control in Textiles
- ME-205: Elements of Machine Dynamics & Design
- ME-112: Thermodynamics
- TE-207: Machine Design
- TS-245: Pre-treatment in Textiles
- TE-424: Textile Chemical Processes-II
- TE-304: Textile Mill Utilities-I
- TS-358: Textile Printing
- TE-452: Textile Finishing

Masters level:

- TE-505: Advance Statistics

PhD level:

- TE-601: Chemistry of Chemical Finishing of Textiles
- CE-603: Probability & Statistics
- TE-610: Design of Experiment
- TE-604: Response Surface Methodology
- CY-603 Design of Experiment

Undergraduate Diploma Courses

- Pretreatment & Dyeing
- Printing & Finishing

Postgraduate Diploma Courses

- Total Quality Management

Research Projects

(Funding details and outcome will be furnished upon request)

-Characterization of Polyester micro-plastic pollution from textiles and development of various mitigation techniques. (2024 -2027)

-Investigating the Ways to Produce Regenerated Lyocell Fiber from Post-Consumer Cotton Waste (Sept. 2023-Aug. 2024).

-Development of Personal Protective Equipment (PPE) using bamboo cotton knitted fabrics (August 2021-August 2022).

-Development of self-cleaning Denim Using natural based Nano particles (Sept. 2020- Sept. 2021).

-Quantitative & Qualitative analysis of water used for Effluent Treatment Plant (Sept. 2020 – Nov. 2020).

-Surface modification of Ultra-high molecular weight polyethylene (UHMWPE) to improve the dyeability (April 2016 - Dec. 2016).

-Investigation to improve the pilling resistance of

bamboo/cotton woven fabrics (Aug. 2014 – Dec. 2019).

-Development of combined process for reactive printing and crease resistance finishing of cotton fabric (June 2008- Marchppppppp 2012).

