

Name: Engr. Dr. Muhammad Amir Qureshi
Father name: Muhammad Iqbal Qureshi
HEC Approved PhD Supervisor, 2019-2025
<https://orcid.org/0000-0001-5513-053X>
Scopus Author Id=57210946044
Web of Science Researcher HJY-6051-2023
Home Address: A 219 Block 4, Saadi Town, Scheme 33 Malir Cantt, Karachi,
Contact detail: 0092-3363685329; WhatsApp: 0092-3363685329
Email: qureshi@neduet.edu.pk; drmaq19@gmail.com



Academic Qualifications

- ✓ In 2017, Ph.D. in Garment Engineering from the Heriot-Watt University, Scotland, United Kingdom.
- ✓ In 2008, Master of Engineering in Textile (CGPA: 3.70 out of 4.0) from the NED University of Engineering and Technology, Pakistan.
- ✓ In 2001, Bachelor of Engineering in Textile Engineering with **Distinction** from the NED University of Engineering and Technology, Pakistan.

Academic Achievements

- ✓ In 2024, earned financial rewards in the return of research publication.
- ✓ In 2024, earned Best Researcher Award 2023 from ASRB, NED UET.
- ✓ In 2023, earned financial rewards in the return of research publications.
- ✓ In 2022, earned 500 US Dollar reward and commendation letter to recognize the outstanding merit displayed in the return of research publication during year 2020 from NED Alumni Association of South California, USA.
- ✓ In 2019, earned PKR1,00,000 financial reward [DR (Estab)/ (PersNO.2385) / 8838 dated 1st October 2019] in the return of research publications.
- ✓ In 2010, NED UET granted a Ph.D. scholarship at Heriot Watt University, Scotland, UK.
- ✓ In 2009, VC NED UET, Engr. Abul Kalam recognizes me as an excellent presenter on presenting a technical Talk regarding availed facilities at Department of Textile Engineering in front of HEC delegation and Pakistan Atomic Energy Commission, Dr. Samar Mubarakmand.

Professional Achievements

- ✓ I am working as an Assistant Professor (BPS-19) since 12th June 2008 and also serving as a Director, Directorate of University Advancement and Financial Assistance 18th January 2024 in NED University of Engineering and Technology Pakistan.

- ✓ I have served as a Director, Directorate of Industrial Liaison from 11th October 2017 to 18th January 2024 in NED University of Engineering and Technology Pakistan.
- ✓ I have organized as an Expert Facilitator, one full day Industrial Technical Training section on the Topic: **Troubleshooting relating Garment Manufacturing** dated 25/11/2017 under the umbrella of CCEE, NED UET to facilitate the Textile Industries of Pakistan Human resource capacity building on technical ground which I have expertise built during my Ph.D. career at Heriot Watt University, United Kingdom.

Academic Career

- ✓ I have taught Pre-Spinning processes, Textile Yarn Manufacturing, Fabric Forming Technique Knitting, Textile Printing, Polymer and Fiber Science, Garment Manufacturing and Textile Merchandising courses at undergraduate level. Technical Textile, Apparel and Merchandising, Total Quality Management and Project Management at Master level.
- ✓ I have performed administrative duties like class advisor, FYDP committee member, FYDP coordinator and an arranging an industrial visit, job placement opportunities for students to explore their academic background with real industrial exposure.
- ✓ I have supervised and examined at least 40 FYDPs

Industrial Experience

I have vast industrial experience (2001-2008) in different Textile fields like Spinning, Weaving, Knitting and Garment as under:

- ✓ Three years experienced as a Factory Manager in Algousia Knitting Factory and Industries and in addition three years more as a Textile Consultant.
- ✓ Three years experienced as a Technical Manager in Spectra Fabrics (Pvt.) Limited, Pakistan.
- ✓ Two years experienced as a Senior Spinning Manager in Jubilee Spinning and Weaving Mills, S.I.T.E. Karachi, Pakistan.
- ✓ One year experienced as an Assistant Spinning Manager in Latif Textile Mills, Nooriabad.

Professional Services

- ✓ External Member, Board of Studies (BoS), Textile Engineering and Design, reference No.: 18/R/S.A.A./BoS-TED/BUITEMS/3321-28, dated: 15-4-2025.
- ✓ PEC- Program Evaluator (PEV)/ Expert of relevant discipline, dated 20 June ,2022
- ✓ University Representation in KCCI Education Sub-Committee. Letter No. KCCI/H&E/21-22/3931 dated 30-12-2021

- ✓ University Representation in KCCI Education Sub-Committee. Letter No. KCCI/Pres I-2/UN/H&E/20-21/1571 dated 30-11-2020.
- ✓ Subcommittee member of procurement of uniform articles of Government of Sindh Police department for the financial year 2019-20.
- ✓ Chair Board of Review (BoR), Directorate of Industrial Liaison, NED UET, 2017-2023
- ✓ Member of SENATE, NED UET, 2018-2023
- ✓ General Secretary NED Teacher Association (NETA: 2018-19)
- ✓ Member of Board of Review (BoR) at University Level, NED UET, Since 2017
- ✓ Member of Board of Review (BoR), In 2018 CINETIC Department, NED UET

Supervised Master / Ph.D. Projects

Ms Sobouhi Ashraf, Department of Telecommunication Engineering, NED UET (completed in 2024)

Reference No.Acad/46(G)/47051/51624 dated 7th June 2024, Co-Supervised MS research project titled “Fabric Defect Identification and Classification using Long Short Term Memory-Convolution Neural Network.”

Ms Erum Gilal, Department of Telecommunication Engineering, NED UET (Completed in 2023)

Reference No. NED/Acad/46(G)/11759 dated 30th November 2022, Co-Supervised MS research project titled “Design and Implementation of a Body Sensors Network Using Conductive Yarn based Fabric.”

Ms. Noreen Akram, Department of Telecommunication Engineering, NED UET (On going)

Reference No. NED/Acad/50(48)/11402 dated 25th November 2022, Co-Supervised Ph.D. research project titled “Intelligent Real Time Fabric Weave Identification and Characterization Using Visual Sensors Network for Textile Applications.”

International Journal Reviewer

- ✓ Textile Research Journal (0040-5175 / 1746-7748, Q2, W category), Sage Publications Ltd, 1 Olivers Yard, 55 City Road, London, England, Ec1y 1sp
- ✓ Applied Mechanics and Materials (1662-7482), Trans Tech Publications Ltd Scientific.Net.
- ✓ Journal of Nano Research (1662-5250/1661-9897, Q4, Y category), Trans Tech Publications Ltd Scientific.Net.
- ✓ Journal of Education, Society and Behavioural Science (ISSN: 2456-981X).
- ✓ Journal of Scientific Research and Reports (ISSN: 2320-0227).

- ✓ Asian Journal of Language, Literature and Culture Studies.
- ✓ Journal of Global Economics, Management and Business Research (ISSN: 2454-2504).

Research Funding

- 1) Earned Travel grant from NED University [DR (Estab)/(Pers NO.2385) / 9580 dated 25th October 2019] for international conference on Materials Engineering and Nanotechnology, 2nd -5th Dec 2019, Kuala Lumpur Malaysia.
- 2) Won FYDP funding:
 - ✓ NGIRI-2024-25133 Fabrication and Characterization of Hollow Yarn
 - ✓ NEDAASC FYP Funding 2024 Glow in the Dark Photoluminescence Fabric for Safety Textile
 - ✓ NIGRI -2023-21360 Development of Odorless Clothing
 - ✓ NIGRI -2023-20868 Removal of Particulate Matter (PM) with Biomass Based Air Filter,
 - ✓ NIGRI -2022-12495 Non-Destructive Classification of Woven Fabrics Using Machine Learning
- 3) I have been submitted proposal for research grant:
 - ✓ Titled: *Indigenous development of Hollow yarn at conventional spinning frame for sound absorbing application*, for Sindh Research Support Program Application Form 2024-25, Project Funding Up to Rs. 5 million.
 - ✓ Titled: *IOT Enabled AI Fabric Inspector*, for Sindh Research Support Program Application Form 2024-25, Project Funding Up to Rs. 5 million.

Industrial Funding

As a director, Directorate of Industrial Liaison fetched industrial funding for NED Career Fair:

- ✓ In 2023, 1.755 million PKR
- ✓ In 2022, 1.25 million PKR
- ✓ In 2019, 0.43 million PKR

International Conferences Attended

- ✓ 2nd International Conference attended on CPEC: Joining hands for Sustainable Development (ICCJSD), December 23rd -24th, 2022, NED UET.
- ✓ 3rd International Conference attended on Innovations in Computer Science & Software Engineering (ICONICS-2022), December 14-15, 2022, NED UET.
- ✓ International Conference on Sustainable Engineering & Development (ICSED-2022) attended on November 25th -26th, 2022 at Marriott Hotel, Karachi.
- ✓ 5th NED-ITC 2022 International Scientific Conference, Bridging the Gap between Industry and Academia through Research and Innovation, attended and member of organizing committee which was organized by Textile Engineering Department NED University. 16th-17th November 2022

- ✓ 7th International Electrical and Engineering Conference (IEEC)-2022 at NED UET, attended on 25th- 26th March 2022 NED UET.
- ✓ 1st International Conference on Applied Physics and Engineering (ICAPE 2021) attended on 16th -17th September 2021 at Syed Mahmood Alam Auditorium, NED UET.
- ✓ 1st International Conference on Advances in Material Science and Environmental Engineering 2021 (ICAMSEE-2021) attended on 25th & 26th June, 2021 at Syed Mahmood Alam Auditorium, NED UET.
- ✓ 10th International Mechanical Engineering Conference (IMEC-2021) attended on Friday 12th February, 2021 at Video Conferencing Hall, NED UET.
- ✓ 4th NEDITC-DICE-2020 International Scientific Conference for research in the field of Textile Engineering and Technology attended and has been a member of the scientific committee and a reviewer which was organized by Textile Engineering Department NED University.
- ✓ 3rd NEDITC-2018 International Scientific Conference for research in the field of Textile Engineering and Technology attended and member of organizing committee which was organized by Textile Engineering Department NED University.
- ✓ The NED in collaboration with USA Alumni called DICE foundation is organized DICE Automotive Mega Event, 2017 to support and provides opportunity to grow Automotive Industry in Pakistan to globally competitive level. In this event all stakeholders Industries and Public and Private Universities of Pakistan are invited to showcase their creative work and intellectual design project
- ✓ 2nd International Conference on Advance Materials & Process Engineering (AMPE-2017) attended which was organized by Faculty of Chemical & Process Engineering NED University.
- ✓ 2nd NEDITC 2016 International Scientific Conference for research in the field of Textile Engineering and Technology attended which was organized by Textile Engineering Department NED University.

Research Journal Publications

- 1) Akram N., Butt, R.A., **Amir, M.**, (2025). AI-Driven Fabric Classification: Real-Time Implementation for Sustainable Textile Practices in Industry 5.0. Materials Research Express. <https://doi.org/10.1088/2053-1591/add98f>. (JCR, HEC-W Category)

- 2) **Amir, M., & Ali, M.** (2025). Biomass activated carbon air filter for particulate removal. *Polimery*, 70(4), 266–277. <https://doi.org/10.14314/polimery.2025.4.5> (**JCR, HEC-W Category**)
- 3) **Amir, M.** (2025). Development of Odorless Fabric by Using Modified Complex Coacervation Technique. *Journal Kejuruteraan*, 37(1), 179-190. [https://doi.org/10.17576/jkukm-2025-37\(1\)-12](https://doi.org/10.17576/jkukm-2025-37(1)-12) (**JCR, HEC-X Category**)
- 4) **Amir, M., Asghar, M. S. A.,** (2024). Synthesis and application of WO₃/PVA Nano composite for Antibacterial and Thermal Insulation. *Materials Research Express*. <https://doi.org/10.1088/2053-1591/ad8a1f>. (**JCR, HEC-W Category**)
- 5) **Amir, M., & Asim, F.** (2024). Unveiling the dynamics of seam performance: a regression analysis approach for predictive modeling. *Engineering Research Express*. <https://doi.org/10.1088/2631-8695/ad4a25> (**JCR, HEC-X Category**)
- 6) **Amir, M., Butt, R.A., Naqvi, S., Hasnay, S.F.,** (2024). Powering of IOTs through Single Jersey Wearable Tribo-Electric Nano Generator. *Engineering Research Express*. [DOI 10.1088/2631-8695/ad2d9b](https://doi.org/10.1088/2631-8695/ad2d9b) (**JCR, HEC-X Category**)
- 7) **Amir, M., Asghar, M. S. A., Ali. S.N.,** (2024). Characterization and antimicrobial properties of cotton fabric loaded with green synthesized silica nanoparticles. *Journal Kejuruteraan*: 36(2). [DOI: dx.doi.org/10.17576/jkukm-2024-36\(2\)-38](https://doi.org/10.17576/jkukm-2024-36(2)-38) (**JCR, HEC-Y Category**)
- 8) Noreen A., Rizwan B.A., **Amir, M.** (2024). Modification of a Convolutional Neural Network for the Weave Pattern Classification. *Mehran University Research Journal of Engineering and Technology*, 43(2), 79-90, <https://doi.org/10.22581/muet1982.2998>. (**JCR, HEC-Y Category**)
- 9) **Amir, M., Shenela N., Farhana N.** (2023). Investigation into shrinkage of stretchable denim fabric and its consumption in marker making by varying drying temperatures. *Mehran University Research Journal of Engineering and Technology*, 42(4), 41-49. [http://dx.doi.org/10.22581/muet1982.2304.2871](https://dx.doi.org/10.22581/muet1982.2304.2871). (**JCR, HEC-Y Category**)
- 10) Asghar, M. S. A., **Amir, M., Hussain, U., & Sabri, M. M.** (2023). Zinc and graphene oxide composites as new protective coatings for oil and gas pipes. *Polimery*, 68(7-8), 378-385. <https://doi.org/10.14314/polimery.2023.7.3> (**JCR, HEC-Y Category**)
- 11) Jamal, T., Hasany, S. F., **Amir, M., Tahir, M., Javed, S., & Sehar, U.** (2023). Fabrication and Characterization of Antimony doped Iron oxide Nanoparticles. *Quaid-E-Awam University Research Journal of Engineering, Science & Technology, Nawabshah.*, 21(01), 65-68. <https://doi.org/10.52584/QRJ.2101.08> (**HEC-Y Category**)

- 12) **Amir, M.** (2023). Sustainable solution of sewing thread attributes on seam pucker. Mehran University Research Journal of Engineering and Technology, 42(3), 25-32. <https://doi.org/10.22581/muet1982.2303.03> (**JCR, HEC-Y Category**)
- 13) **Amir, M.**, Ahmed, K., Hasany, S. F., & Butt, R. A. (2023). Non-Covalent Bonding of Green Synthesized Copper Nanoparticles to enhance Physico-chemical behavior of Sulfur-Dyed Cotton Fabric. AATCC Journal of Research, [24723444231161742](https://doi.org/10.14314/polimery.2023.2.1). (**JCR, HEC-Y Category**)
- 14) **Amir, M.**, Hasany, S. F., & Asghar, M. S. A. (2023). Modification of bentonite nanoclay for textile application. Polimery, 68(2), 79-85. <https://doi.org/10.14314/polimery.2023.2.1> (**JCR, HEC-Y Category**)
- 15) Zahoor, A., Ahmed, G., **Amir, M.**, Butt, F., & Naqvi, A. A. (2023). Effect of varying percentages of Co₃O₄ Nanoparticles on the Behavior of (ORR/OER) Bifunctional Co₃O₄/α-MnO₂ Electrocatalyst. Tecciencia, 18(34), 43-52. <https://doi.org/10.18180/tecciencia.2023.34.4>. (**Web of Science, HEC-Y Category**)
- 16) Naqvi, S., **Amir, M.**, Naeem, F., Dias, T., & Lewis, P. S. (2023). An Investigation into Design of Blood Pressure Cuffs Using the Tekscan Pressure Sensing System. AATCC Journal of Research, 10(2), 80-88. [DOI:10.1177/24723444221132326](https://doi.org/10.1177/24723444221132326). (**JCR, HEC-Y Category**)
- 17) Butt, R.A.; Rehman, T.; **Qureshi, M.A.** (2023). A Smart IoT-Enabled Cage for the Farming of Ground Birds. Eng. Proc. 46, 26. <https://doi.org/10.3390/engproc2023046026>. (**Scopus, HEC-Y Category**)
- 18) **Amir, M.** (2022). Load extension behavior of spun sewing threads on seam slippage. Quaid-E-Awam University Research Journal of Engineering, Science & Technology, Nawabshah, 20(02), 28-37. <https://doi.org/10.52584/QRJ.2002.04>. (**HEC-Y Category**)
- 19) Abdullah, M., Hasany, S., **Amir Qureshi, M.**, & Hussain, S. (2022, September). Cost-Effective Synthesis of Cobalt Ferrite Nanoparticles by Sol-Gel Technique. Materials Science Forum (Vol. 1067, pp. 213-219). Trans Tech Publications Ltd. <https://doi.org/10.4028/p-jdlq11>. (**Scopus**)
- 20) Amir, G. K. S. M. (2020). An experimental analysis in to thread cycling recovery on seam appearance. Journal of Fashion Technology and Textile Engineering, 8(5). [DOI: 10.37532/jfjte.2020.8\(5\).197](https://doi.org/10.37532/jfjte.2020.8(5).197)

- 21) Amir M (2020) Experimental Analysis of Static Thread Tension on Seam Appearance. Journal of Fashion Technology and Textile Engineering 8(3).DOI: [10.37532/jfjte.2020.8\(3\).193](https://doi.org/10.37532/jfjte.2020.8(3).193).
- 22) Hasany, S.F., Hussain, S., Ali, S.M.U., Abdul-Kadhim, W. **Amir, M.**, (2020). ZnO nanostructures: comparative synthetic and characterization studies. Micro & Nano Letters, 15(14), pp.972-976. <https://doi.org/10.1049/mnl.2019.0795> (**JCR, HEC-X Category**)
- 23) **Amir, M.**, Leaf, G.A. and Stylios, G.K., (2020). A model of seam pucker and its applications Part I: theoretical. The Journal of the Textile Institute, 111(1), pp.64-67. <https://doi.org/10.1080/00405000.2019.1646077> (**JCR, HEC-X Category**)
- 24) **Amir, M.**, Leaf, G.A. and Stylios, G.K., (2020). A Model of Seam Pucker and Its Applications. Part II: Experimental. The Journal of the Textile Institute, 111(1), pp.60-63. <https://doi.org/10.1080/00405000.2019.1646076> (**JCR, HEC-X Category**)

Conference Publications

- 1) **Qureshi, M.A.**; Butt, R.A.; Arfeen, M.Z.; Akram, N., (2022). Fully Automatic Weave Identification in Woven Fabrics Using Digital Image Processing. Eng. Proc. 20, 1. <https://doi.org/10.3390/engproc2022020001>. (**Scopus**)
- 2) **Muhammad Amir**: ID M153: Investigation on the Mechanical Properties Of different woven Fabrics by Using Engineered Nano Clay." International Conference on Materials Engineering and Nanotechnology ICMEN 2019, 2nd-5th December 2019 Kuala Lumpur, Malaysia.
- 3) C8-26 "Effect of Green Synthesized Copper Nanoparticles In Comparison With Copper Salt On The Dye-ability Of Cotton Fabric Towards Sulphur Dye" by ¹Shumaila Meraj, ²**Muhammad Amir** and ¹Kashif Ahmed, ¹Department of Chemistry, ²Department of Textile Engineering, NED University of Engineering and Technology, at 4th International Conference on Bioscience and Biotechnology (BioTech-2019) "Pursuing innovation in Bioscience and Biotechnology to Solve local and Global Grand Challenges" 21st – 22nd February 2019 | Kuala Lumpur | Malaysia, [ISBN 978-955-3605-24-5](https://doi.org/10.3390/ISBN9789553605245)

Book Chapter Publication

On 31th December 2024 received acceptance letter of book chapter under the titled "Development of wrinkle resistant textiles using nanoparticles" which will be published by Springer Nature Switzerland AG in 2025.

Patents Filed

- 1) National Patent No. 460/2018 "Modified Synthesized Technique for Temperature responsive Polymer Magnetic Nanohybrids for potential Targeted Drug carrier applications."
- 2) National Patent No. 188/2025 "Development of a Soft Hybrid Nanogenerator for Sustainable Energy Harvesting."
- 3) National Patent No. 190/2025 "IntelliInspect: A Real-Time System for Fabric Quality Inspection."

Membership

1. Member (M-21580/KAR-3904) of Central Council of the IEP since 28th June 2021
2. Life-time member as a Professional Engineer (Textile/38) at Pakistan Engineering Council since 2001
3. Member NEDAN since 2001

References

To be furnished on request.