

Dr. Farooq Ahmed

1. PROFESSIONAL EXPERIENCE

► **March 2015 - To Date [Teaching and Research Experience]**

Associate Professor **Department of Textile Engineering**, Mehran UET, Jamshoro

Responsibilities: Subject taught Yarn Manufacturing-III, Yarn Manufacturing-IV, Yarn Manufacturing-V (Theory and Practical); Nanofibers, nanomaterials, environmental concerns regarding textiles. Supervising thesis groups for post graduate and under graduates.

► **July 2004 – March 2015 [Teaching and Research Experience]**

Assistant Professor **Department of Textile Engineering**, Mehran UET, Jamshoro

Responsibilities: Subject taught Yarn Manufacturing-I, Yarn Manufacturing-II, Yarn Manufacturing-III (Theory and Practical); Textile Testing and Quality Control-II (Theory and Practical); research activities in Open end spinning, Nanofibers, nanomaterials, environmental concerns regarding textiles. Supervising thesis groups for post graduate and under graduates.

► **October 1998– July 2004 [Teaching and Research Experience]**

Lecturer **Department of Textile Engineering**, Mehran UET, Jamshoro.

Responsibilities: Subject taught Spinning-I, Spinning-II, Spinning-III (Theory and Practical); Fibre science, Textile Testing and Quality Control (Theory and Practical), Textile Raw Material (Theory and Practical). Supervised thesis groups for under graduate.

► **November 1996 – October 1998 [Industrial Experience]**

ASM **QueetaTextile Mills Ltd**, Phoolnagar, 47Km, Multan Road, Lahore.

Responsibilities: Set out the processing priorities and routes, managing the technical and production matters of concerned departments. Managing routine maintenance schedule and quality assurance parameters. Selection of machineries for new expansion plans.

2. EDUCATIONAL QUALIFICATIONS

- PhD Textile,** Mehran University of Engineering & Technology, Jamshoro, (2013)
B.Sc Engineering (Textile) National Textile University, Faisalabad, Pakistan, (1996)
Intermediate, (Pre-Engg. 1st Div.), Cadet College Petaro, (1990)

3. PUBLICATIONS IN INTERNATIONAL JOURNALS

[Cumulative Impact Factor ~ 58.7520]

23. Cationization of cellulose nanofibers for the removal of sulfate ions from aqueous solution

Mohammad Muqeet, Hammad Malik, Rasool Bux Mahar, Farooq Ahmed, Zeeshan Khatri, Krista Carlson
Industrial & Engineering Chemistry Research, Accepted (November 2017)
[Impact factor 2.843]
22. Removal of lead from aqueous solution using polyacrylonitrile/magnetite nanofibers

Hammad Malik, Umair Ahmed Qureshi, Mohammad Muqeet, Rasool Bux Mahar, Farooq Ahmed, Zeeshan Khatri
Environmental Science and Pollution Research, Accepted (November 2017)
[Impact factor 2.741]
21. Dyeability of recycled electrospun polyethylene terephthalate (PET) nanofibers: Kinetics and thermodynamic study
Faraz Khan Mahar, Mujahid Mehdi, Umair Ahmed Qureshi, Khan Muhammad Brohi, Bilal Zahid, Farooq Ahmed, Zeeshan Khatri
Journal of Molecular Liquids, 248C (2017) 911-919 [Impact factor 3.684]
20. Highly efficient and robust electrospun nanofibers for selective removal of acid dye

Umair Ahmed Qureshi, Zeeshan Khatri, Farooq Ahmed, Abdul Sameeu Ibupoto, Muzamil Khatri, Faraz Khan Mahar, Rafiuzzam Brohi, Ick Soo Kim
Journal of Molecular Liquids, 224, 478-488 (2017) [Impact factor 3.684]
19. Enhanced ionic mobility and increased efficiency of dye sanitised solar cell by adding Lithium Chloride in Poly (vinylidene fluoride) nanofiber as an electrolyte medium

Iftikhar Ali, **Farooq Ahmed**, Zeeshan Khatri, Kyung Chul Sun, Sung Hoon Jeong
Journal of Materials Science, (August 2017) [Impact factor 2.599]

18. Screen-printed electrospun cellulose nanofibers using reactive dyes
Zeeshan Khatri, **Farooq Ahmed**, Awais Khatri, Muzamil Khatri, Umair Qureshi, Ick Soo Kim
Cellulose, (July 2017). [Impact factor 3.417]
17. Fiber Quality Evaluation of Pakistan's Locally Developed Cotton Varieties for Yarn Manufacturing
Awais Khatri, Iftikhar Ali Sahito, **Farooq Ahmed** & Imran Khatri
Pages 1-9 | Published online: 17 Jul 2017 [Impact factor 0.9]
16. Dyeing and characterization of regenerated cellulose nanofibers with vat dyes
M Khatri, **F Ahmed**, I Shaikh, DN Phan, Q Khan, Z Khatri, H Lee, IS Kim
Carbohydrate Polymers, 174C (2017) 443-449. [Impact factor 4.811]
15. Electrospun zein nanofiber as green and recyclable adsorbent for the removal of reactive black 5 from aqueous phase.
U Qureshi Ahmed, Z Khatri, **F Ahmed**, M Khatri, IS Kim ACS Sustainable Chemistry and Engineering, 5(5), 4340-4351 (2017) [Impact factor 5.9]
14. Ultrasonic-assisted deacetylation of cellulose acetate nanofibers: A rapid method to produce cellulose nanofibers
F Ahmed, AA Arbab, AW Jatoi, M Khatri, N Memon, Z Khatri, ISK Ultrasonics Sonochemistry 36, 319-325. (2017). [Impact factor 4.218]
13. Ultrasonic assisted dyeing of Nylon-6 nanofibers.
A W Jatoi, **F Ahmed**, M Khatri, A Tanwari, Z Khatri, H Lee, IS Kim Ultrasonic sonochemistry 31, 350-354, 39, 34-38, (2017). [Impact factor 4.218]
12. Adsorption of direct green 26 onto fix 3500 treated sawdust: equilibrium, kinetic and isotherms.
A Hashem, **F Ahmed**, SM Badawy, Desalination and Water Treatment 57, no. 28 (2016): 13334-13346. [Impact Factor 1.27]

11. Use of Taguchi Method and Grey Relational Analysis to Optimize Multiple Yarn Characteristics in Open-End Rotor Spinning.
T Hussain, **F Ahmed**, Z A Malik. Autex Research Journal. [Impact Factor 0.46]
10. Ultrasonic Dyeing of Cellulose Nanofibers.
M Khatri, **F Ahmed**, AW Jatoi, RB Mahar, Z Khatri, ISK
Ultrasonics sonochemistry 31 (2016): 350-354. [Impact factor 4.218]
9. Cell adhesion behavior of poly (ϵ -caprolactone)/poly (L-lactic acid) nanofibers scaffold.
Z Khatri, AW Jatoi, **F Ahmed**, ISML Kim, Materials Letters 171 (2016): 178-181. [Impact factor 2.572]
8. Effect of Silicone Nano, Nano/Micro and Nano/Macro-Emulsion Softeners on Color Yield and Physical Characteristics of Dyed Cotton Fabric.
A W Jatoi, Z Khatri, **F Ahmed**, M H Memon, Journal of Surfactant and Detergent 18, no. 2 (2015): 205-211. [Impact factor 1.450]
7. Co-electrospun poly (-caprolactone)/cellulose nanofibers-fabrication and characterization.
F Ahmed, S Saleemi, Z Khatri, M I Abro, I S Kim. Carbohydrate Polymers 115 (2015) 388–393 [Impact Factor 4.811]
6. Fabrication of Rewritable Pattern Images with Ultraviolet-responsive Polycaprolactone Electrospun Fibers.
Ali Shamsad, **F Ahmed**, Zeeshan Khatri, and Seong Hun Kim. Textile Science and Engineering 52, no. 2 (2015): 126-131.
5. Cold pad-batch dyeing of cellulose nanofibers with reactive dyes.
Z Khatri, **F Ahmed**, A K Jhatial, M I Abro, G Mayakrishnan, IS Kim,
Cellulose 2014 Vol.21, No.4, 3089-3095 [Impact Factor 3.417]
4. An Environmentally Friendly Process for the Preparation of UHMWPE As-Spun Fibres.
A Rajput, A Aleem, **F Ahmed**. International Journal of Polymer Science Volume 2014, Article ID 480149, 1- 5 [Impact Factor 1.322]

3. Multiple Response Optimization of Rotor Yarn for Strength, Unevenness, Hairiness and Imperfections.
F Ahmed, A Tanwari, T Hussain, and Z A Malik. *Fibers and Polymers* 2012, Vol.13, No.1, 118-122 [Impact Factor 1.113]
2. Development of Models to Predict Tensile Strength of Cotton Woven Fabrics.
Z A Malik, M H Malik, T Hussain, **F Ahmed**. *Journal of Engineered Fibers and Fabrics* 2011 Vol.6, No.4, 46-53. [Impact Factor 0.778]
1. Application of Some Starch Hydrogels for the Removal of Mercury(II) Ions from Aqueous Solutions.
A Hashem, **F Ahmed** and R Fahad. *Adsorption Science & Technology* 2008 Vol.26, No.8 563-579. [Impact Factor 0.93]

PUBLICATIONS IN NATIONAL JOURNALS

15. Polycaprolactone-Polydiacetylene Electrospun Fibers for Colorimetric Detection of Fake Gasoline.
A Khatri, S Ali, **F Ahmed**. *Mehran University Research Journal of Engineering & Technology* 35 (2), 287-292. 2016
14. Effect of lowering twist multiple on quality parameters of rotor spun yarn.
F Ahmed, A A Pathan, G Y Shaikh. *Mehran University Research Journal of Engineering & Technology* 35 (3), 425-430, 2016
13. Colorimetric Sensor for Detection of Adulteration in Gasoline using Polydiacetylene Electrospun Fibers
S Ali, **F Ahmed**, A Khatri, M Khatri. *Pakistan Journal of Analytical & Environmental Chemistry Sindh University*. Vol 17, no. 1 (2016): 38-42.
12. Fabrication of Polycaprolactone - Cellulose Acetate Hybrid Electrospun Fiber Blends.
S Ali, **F Ahmed**. *M Khatri Technical Journal UET, Taxila, Pakistan* 21 (1), 79-82, 2016.
11. An investigation to adopt zero liquid discharge in textile dyeing using advanced oxidation processes.
F Ahmed, I A Shaikh. M H Rajput. *Mehran University Research Journal of Engineering and Technology* 34 (2), 196-201. 2015.

10. Study of physical properties of nano-silica coated cotton textiles.
S Saleemi, **F Ahmed** S A Malik. Mehran University Research Journal of Engineering and Technology 34 (2), 202-207, 2015.
9. Influence of Amino-Functional Macro and Micro Silicone Softeners on the Properties of Cotton Fabric
Abdul Wahab Jatoi, Zeeshan Khatri, **Farooq Ahmed** Mehran University Research Journal Of Engineering & Technology 34 (1), 70-74, 2015
8. Characterization of Rotor Spun Knitting Yarn at High Rotor Speeds.
F Ahmed, S Saleemi, A W Rajput, I A Sheikh, A R Sahito. Technical Journal, University of Engineering and Technology Taxila Pakistan, 19(IV) 73-78, 2014
7. Developments in Health Care and Medical Textiles - A Mini Review-1.
F Ahmed, I A Sheikh, T Hussain, I Ahmad, S Munir, M Zameer. Pakistan Journal of Nutrition 13 (12): 780-783, 2014
6. Impact of Trifling Quantity of Polyester on Physical Characterization of Low Twist Rotor Spun Blended Yarn.
F Ahmed, A W Rajput, A R Sahito, S Saleemi. Sci. Int. (Lahore), 26(1), 279-282, 2014
5. In-Situ Decolorization of Residual Dye Effluent in Jet Dyeing Machine by Ozone (O₃)
I A Sheikh, **F Ahmed**, A R Sahito, A A Pathan. Pakistan Journal of Analytical & Environmental Chemistry, 15(2), 71-76, 2014
4. Reuse of Beverage Industry Wastewater in Textile Dyeing after its Treatment with Ozone
I A Sheikh, **F Ahmed**, T J S Khanzada, I Ahmad Pakistan Journal of Nutrition 13 (11), 653-656, 2014
3. Advanced Oxidative Removal of C.I. Food Red 17 Dye from an Aqueous Solution.
I A Sheikh, S Munir, **F Ahmed**, T Hussain, I Ahmad. Pakistan Journal of Nutrition 13 (11), 631-634. 2014
2. Fenton Oxidation Treatment of Spent Wash-Off Liquor for Reuse in Reactive Dyeing.
A Mangat, I A Shaikh, **F Ahmed**, S Munir, M Baqar. Technical Journal, University of Engineering and Technology Taxila Pakistan, 19(IV) 43-47, 2014
1. Statistical Modeling for the Effect of Rotor Speed, Yarn Twist and Linear Density on Production and Quality Characteristics of Rotor Spun Yarn.
F Ahmed, A Tanwari, H R Sheikh, Mehran University Research Journal of Engineering & Technology, 31(1), 119-128. 2012

4. Patents

4. Gravity water filter using nanofiber membranes, *PK Patent filed 6/2017 (March 2017)*

3. Zein-Polyvinyl alcohol Nanofiber as a biphasic drug release and method of making/using thereof, *US Patent Submitted (July 2015)*.
2. Starch-Polyvinyl Alcohol Nanofibers for packaging material and method of making/using thereof, *US Patent Submitted (July 2015)*.
1. Porous cellulose nanofibers, *US Patent 14/699, 899 (2015)*.

5. NATIONAL AND INTERNATIONAL CONFERENCES, SEMINARS, WORKSHOPS

1. Nida Fatima, Farooq Ahmed, Zeeshan Khatri, Dyeing of Cellulose Acetate Nanofibers using Microwave Energy, 5th International Conference on Textile and Clothing (ICTC), University of Management, Lahore, 24-25 March 2017.
2. Zeeshan Khatri, Shamshad Ali, Farooq Ahmed and Ick Soo Kim, Preparation of UV responsive nanofibers and their potential application in modern era, TICEAS 2014, Tokyo, Japan, 17-19 December 2014. Proceeding, pp. 21-24.
3. Sidra Saleemi, Farooq Ahmed, Zeeshan Khatri, Preparation and Characterization of Co-Electrospun Cellulose/ Polycaprolactone Blend Nanofibers, 3rd International Conference EESD 2014, Pakistan, Oct 22-24, 2014
4. Rabia Almas, Farooq Ahmed, Zeeshan Khatri, Fabrication and Characterization of Bio-Nanofibres Incorporated Gold Nanorods, 3rd International Conference EESD 2014, Pakistan, Oct 22-24, 2014.
5. Muzamil Khatri, Abdul Wahab Jatoi, Farooq Ahmed, Zeeshan Khatri, Ick Soo Kim, Dyeing of Nanofibers Using Ultrasonic Energy, 4th International Conference EESD 2016, Pakistan, November 01-03, 2016. ISBN: 978-969-7710-00-3. Proceeding, ID 126 pp. 1-4.
6. Zeeshan Khatri and Farooq Ahmed, Electrospun Nanofibers: Applications and Trends in Modern Era Symposium / Workshop on Nanomaterials Research 15-17 June, 2015. Organized by: National Center for Nanotechnology and Department of Metallurgy and Materials Engineering, Islamabad.
7. Z A malik, F Ahmed, Development of Generalized Models for Yarn Selection to Meet Tensile Strength COVITEX, Faisalabad, Pakistan. March, 2013.
8. Seminar on “WTO and Pakistan’s Textile Industry” by All Pakistan Textile Mills Association (APTMA) and TIP Pakistan. 2005.

9. Workshop on “Electronic Book & Their Effective Usage” by HEC- Digital Library Program M.U.E.T, Jamshoro. 12th Nov. 2007.
10. Workshop on “e-Journals, e-brary Databases and OPACs Awareness” by M.U.E.T Library & On-line Information Centre by M.U.E.T, Jamshoro. 31st Oct. 2007
11. Workshop on “Introduction to Digital Library Resources and their effective Usage” by Digital Library Program by M.U.E.T, Jamshoro. 18th Oct. 2007

6. INTERNATIONAL AND NATIONAL SPECIALIZED TRAININGS

1. 21 days Training on **Textile Industry Management for Pakistan, by Fujian Foreign Trade and Economic Cooperation** Officials Training Centre, Ministry of Commerce, People Republic of China, [Fuzhou, China, 2013](#)
2. 9 days Training Course on **Rotor Spinning Machine R 40 by Rieter Textile Systems, Switzerland** at [Winterthur, Switzerland, 2005](#).
3. 5 days Training Course on **UNIBlend A 80, UNIClean B11, UNImix B70, UNIflex B60 by Rieter Textile Systems, Switzerland** at [Winterthur, Switzerland, 2005](#).
4. 4 days Training Course on **Draw Frame RSB-D 35 by Rieter Textile Systems, Switzerland** at [Winterthur, Switzerland, 2005](#).
5. 5 days Training Course on **Card C 51 by Rieter Textile Systems, Switzerland** at Textile Department [M.U.E.T, Jamshoro](#).
6. 3 days Training Course on **Uster Tensorapid-4 Rauf Electronics Equipment Services** at Textile Department [M.U.E.T, Jamshoro](#).
7. 5 days Training Course on **Uster Tester-4 Rauf Electronics Equipment Services** at Textile Department [M.U.E.T, Jamshoro](#).
8. 4 days Training Course on **Uster Stelometer, Uster Micronair-775, Uster Fibrograph-730, and Uster Data anager-740 Rauf Electronics Equipment Services** at Textile Department [M.U.E.T, Jamshoro](#).

9. 6 days Training Course on **AutoCAD 2000 Understanding and Application in Engineering** at Textile Department [M.U.E.T, Jamshoro](#).

7. PERSONAL

Name : Farooq Ahmed
Fathers Name : Mohammad. Siddique
Marital Status : Married (Two Children)
Date of Birth : 17.01.1973

CONTACT DETAILS

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Unit No. 10, Latifabad Hyderabad
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