

# CURRICULUM VITAE

## Personal Information:

Dr. Quratulain Mohtashim  
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E-mail: qurat@neduet.edu.pk  
Place of Birth: Karachi  
Nationality: Pakistani  
Present Resident in Pakistan  
Marital Status: Married

## Objective:

I am willing to give the university that I am in, the highest level of education by introducing new ways of learning and motivating the faculty as well as the students to excel in the field of Textile Engineering.

## Key Skills:

Engineering background, teaching, Textile testing, motivation, organization and leadership

## Professional Experience:

January 2022 – Date

### **Associate Professor, Textile Department, NED University Of Engineering & Technology**

Teaching various Textile and Mechanical Engineering courses to Textile Engineering and Sciences Programs; including Machine Design, Engineering Mechanics, Pre-Spinning Processes, Weaving Preparatory processes and Introduction to textile Engineering. Thoroughly engaged in research activities; such as working on an Independent Research Project (NED Seed Funding) and industry based consultancy project in collaboration with Archroma Pakistan Limited; related to indigo dyeing. Besides, also serving as a Class Advisor, Community services' focal person and Internal Advisor of the final year design projects.

November 2015 – December 2021

**Assistant Professor, Textile Department, NED University Of Engineering & Technology**

Teaching theory as well as conducting practical for Textile weaving preparatory processes, Introduction to Textile Engineering, Engineering Mechanics and Mechanics of Materials. Besides, also serve as a Class Advisor, Area Coordinator ISO 9000, Member of Project Committee and Internal Advisor of the Design Projects.

May 2009 – October 2015

**Lecturer, Textile Department, NED University Of Engineering & Technology**

Teaching theory as well as conducting practical for Textile weaving, Textile Printing, Engineering Mechanics and Mechanics of Materials. Besides, also serve as a Class Advisor, Area Coordinator ISO 9000, Member of Project Committee and Internal Advisor of the Design Projects.

October 2007-April 2009

**Lecturer Textile Department, Sindh National Textile College**

Responsible for delivering lectures on Textile Wet Processing, Color Physics, Dyeing, Printing and Finishing.

September 2004-March 2006

**Textile Lab Chemist Clariant Pakistan limited**

Worked in textile dyeing and Printing Labs and had the responsibility of Research & development, Quality control and Customer services of various Textile mills. Also conducted a workshop relating to the product comparisons.

May 2004 – August 2004

**Full Time Researcher Textile Department, N.E.D University of Engineering & Technology**

Worked with Dr. FaheemUddin on a mini research project in collaboration with Gul Ahmed Textile Mills. The project was based on the comparison of a mercerized printed fabric with a cationised printed fabric and analysed the effect of cationisation on lustre, colour strength and ground staining.

September 2003-April 2004

**Trainee Engineer Umer Farooq Textile Mills**

Supervision of weaving looms.

## **Seminars, conferences, training and workshops**

1. Attended and organized 2<sup>nd</sup> International Textile Conference held on 17-18 February 2016, organised by Textile Engineering Department, NEDUET.
2. Attended and organized 3<sup>rd</sup> International Textile Conference held on 10-11 January 2018, organised by Textile Engineering Department, NEDUET.
3. Attended and organized 4<sup>th</sup> International Textile Conference held on 2-3 March, 2020, organised by Textile Engineering Department, NEDUET.
4. Postgraduate Research Conference, School of Materials, University of Manchester (Oral Presentations) held in April 2013.
5. Postgraduate Research Conference, School of Materials, University of Manchester (Poster Presentations) held in May 2014. Participated in poster presentation of Postgraduate Research Conference (University of Manchester) and won 1st prize in Faculty of Engineering and Physical Sciences (Textiles and Paper division).
6. Postgraduate Research Conference, School of Materials, University of Manchester (Oral Presentations) held in May 2015. Being the winner of the poster presentation of PGR Conference, was honoured to present my research work at the Plenary session of the conference.
7. Attended a training named as "NED Higher Education Training" supervised by the Harvard Tiger (Dr.Saman Hina). The training had a 9 weeks duration (5th October to 4th December 2019). Training was based on familiarising the faculty with the advanced learning and teaching strategies. Different assignments, peer review activities, quizzes and microteaching sessions were involved to enhance the overall teaching quality and skills of the faculty engaged in the higher education system. Scored 98% among 26 participants.
8. During my PhD studies, I have attended the following trainings and workshops at University of Manchester:
  - Introduction to Research – Essentials (09/11/2012, 7 hours)

- Successful Searching (15/11/2012, 2 hours)
  - Beginners Reference Management with Endnote (01/02/2013, 2 hours)
  - Intellectual Property in the Research Context (05/02/2013, 2 hours)
  - Academic Writing (21/02/2013, 6 hours)
  - Graduate Teaching Assistant Training (25/06/2013, 7 hours)
  - Optimising Research Posters (09/01/2014, 3 hours)
  - Laser Safety Training (17/02/2014, 3 hours)
  - Publishing Academic Papers (25/02/2014, 6 hours)
  - Planning the Final Year (14/05/2014, 6 hours)
  - Use of X-Ray Photoelectron Spectrometer (27/11/2014, 2 hours)
9. Attended HEC Indigenous on Campus Training on Quality Management, Control and Assurance held from 27-29 January, 2016.
  10. Attended PhD SAR training held on 22-02-2017.
  11. Attended class advisors training: "Importance of feedback analysis", held on 10-03-2017.
  12. Attended class advisors training: "Importance and handling of scholarships", held on 11-09-2017.
  13. HEC Pakistan in collaboration with Intellectual Property Organization (IPO) Pakistan organized a training session to bring awareness about the concept of intellectual property rights and related issues in Pakistan. Attended this training on 27-02-2017.
  14. Attended OBE (Outcome based education) trainings at Textile department, conducted by Dr. Shenila Naqvi and Dr. Sheraz Hussain Siddique in September and October 2018.
  15. Faculty Self Development plan 2019. Held on 04-07-2019 at the University Main

Auditorium.

16. Attended a training named as "NED Higher Education Training" supervised by the Harvard Tiger (Dr.Saman Hina).  
9 weeks duration (5th October to 4th December 2019).  
Training was based on familiarising the faculty with the advanced learning and teaching strategies. Different assignments, peer review activities, quizzes and microteaching sessions were involved to enhance the overall teaching quality and skills of the faculty engaged in the higher education system. Scored 98% among 26 participants.
17. Management of online classes (management and security) held on 05-10-2020
18. Online Evaluation and assessment of students held on 02-12-2020.
19. Meeting involving Harvard Tigers and Cubs, held on Tuesday 06/07/2021 at 02:30PM at University senate Hall. The purpose of the meeting was to find ways to actively involve our students to enhance their learning. The trainings that will help our teachers to improve learning experiences and to align our teaching pedagogy with spirit of OBE.
20. Delivered an informative session on world's environment day at Artistic Milliners Private Limited on Jun 5, 2021. The purpose of the meeting was to familiarise and remind the importance of clean and healthy environment and the ways to attain the same.
21. Attended training on the psychomotor and affective domain (OBE System), held on 7<sup>th</sup> March 2022.
22. Attended an awareness session on cognitive assessment (31-05-2022) arranged by Medical department in collaboration with Neurocomputation lab of Bio Medical Engineering department, NED University.
23. Attended 5<sup>th</sup> NED International Textile Conference organised by Textile Engineering department, NEDUET (16 and 17<sup>th</sup> November, 2022).

### **Internships:**

June-August 2003

40 days internship at ICI Chemicals ,carried out complete testing of Pretreatment and finishing auxiliaries.

June 2001

6 weeks Internship at Al-Karam textile Mills, observed the processes of Spinning, weaving, dyeing and printing departments.

June 2000

4 weeks Training at Clariant Pakistan limited.

June 1999

2 weeks Internship at ICI Limited

## **Education**

October 2012-September 2015 PhD in Textile Science & Technology, The University of Manchester, UK

June 2008-December 2010 Masters of Engineering in Textile Technology, NEDUET

January 1999-December 2002 Bachelors of Engineering in Textile Technology, NEDUET

September 1996-September 1998 Higher School, St.Joseph's Government College for Women

August 1994-August 1996 Secondary School, Gulistan School

## **Languages:**

English: Good written and oral skills

Urdu: Excellent written and oral skills

## **HONOURS AND ACTIVITIES**

1. Secured 10<sup>th</sup> position in Karachi Board in SSC examination and received scholarships from Karachi and Islamabad boards.
2. Secured 3<sup>rd</sup> position in second year of B.E and received scholarship from NEDUET.
3. Participated in poster presentation of Postgraduate Research Conference (The University of Manchester) in 2014 and won 1<sup>st</sup> prize in the Faculty of Engineering and Physical Sciences (Textiles and Paper division).
4. Secured "Best Researcher Award" for three consecutive years (2020 to 2022) from NED University.
5. Working on a consultancy project in collaboration with Archroma Limited.
6. Secured NED Seed Funding 2021.

## **List of Publications:**

1. Mohtashim, Quratulain, and Muriel Rigout. "Investigations into sequential application of cationic fixing agents and tannin to improve fastness properties of sulphur black dyed cotton fabric." NED University Journal of Research 14, no. 4 (2017).

2. Mohtashim, Quratulain, and Muriel Rigout. "Investigations into the sequential application of crease resist finish, tannin and cationic reactant to improve the resistance of sulphur dyes to oxidation." *Mehran University Research Journal of Engineering and Technology* 38, no. 2 (2019): 421-434.
3. Mohtashim, Quratulain, and Muriel Rigout. "Surface Chemical Analysis of Sulfur Black 1 Dyed Cotton Fabric Aftertreated with Cationic Fixing Agents." *AATCC Journal of Research* 6, no. 4 (2019): 1-7.
4. Broadbent, Peter J., Quratulain Mohtashim, Muriel Rigout, and Chris M. Carr. "Investigation into the effect of a plant-derived stabiliser on the light and wash fastness of sulphur-dyed cotton and nylon fabrics." *Coloration Technology* 136, no. 3 (2020): 224-230.
5. Mohtashim, Quratulain, Muriel Rigout, and Chris Carr. "Investigation into the sequential application of cationic/anionic fixing agents to improve the oxidative washing resistance of CI Leuco Sulphur Black 1-dyed cotton fabric." *Coloration Technology* 136, no. 3 (2020): 263-269.
6. Mohtashim, Quratulain, Muriel Rigout, and Sheraz Hussain Siddique. "Light fading, rub and wash fastness of sulphur-dyed cotton fabrics aftertreated with cation-tannin protective system." *Pigment & Resin Technology* 49, No. 6 (2020), 431-439.
7. Quratulain Mohtashim, Fareha Asim, and Salma Farooq. "Aftertreatments 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, no. 1 (2021): 33-39.
8. Sheraz Hussain Siddique, Saira Faisal, Quratulain Mohtashim and Muhammad Ali. "Investigation of fiber orientation and void content in bagasse fiber composites using image analysis technique". *Fibres and Textiles in Eastern Europe' (FTEE)*, 29, no. 3 (2021): 26-32.
9. Quratulain Mohtashim and Muriel Rigout. "Surface chemical analysis of CI Leuco sulphur black 1 dyed cotton fabric after-treated with plant-derived tannin-based protective agent." *Cellulose chemistry and technology*, 55, no. 7-8 (2021): 883-891.

10. Mohtashim, Quratulain and Muriel Rigout. "Surface Chemical Analysis of CI Leuco Sulfur Black 1 Dyed Cotton Fabric Sequentially after-treated with Cationic Fixing Agent and Tannin". *Fibers and Polymers*, 23, no.3 (2022): 736-744.
11. Quratulain Mohtashim, Muriel Rigout, And Sheraz Hussain Siddique. "The development of a tannin-based after-treatment for cotton fabric dyed with sulphur dyes." *Pigment & Resin Technology* 51, no. 2 (2022): 227-235.
12. Sheraz Hussain Siddique Yousfani, Salma Farooq, Quratulain Mohtashim, and Hugh Gong. "Yarn porosity and its relationship with the dyeing behavior." *Pigment & Resin Technology* ahead-of-print (2022).
13. Quratulain Mohtashim, Fareha Asim, and Salma Farooq. "Investigation and optimisation of process parameters for the green chemistry colouration using banana bio-resources waste." *Pigment & Resin Technology* ahead-of-print (2022).

## References:

**Prof. Dr. Sheraz Hussain Siddique**

N.E.D University of Engineering & Technology

E-mail: [siddique@neduet.edu.pk](mailto:siddique@neduet.edu.pk)

**Dr. Salma Farooq (Associate Professor)**

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