

# Quratulain Mohtashim

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NED University of Engineering & Technology, University Road, Karachi - 75270, Pakistan

## OBJECTIVE

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I am a dedicated person aiming to utilise my skills and knowledge to help students achieve both conventional and modern approaches in the field of Textile Engineering. I anticipate to excel in research and development of textiles by my firm belief in continuous learning and honesty with my profession.

## QUALIFICATIONS

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- PhD (Textile Science & Technology) from University of Manchester, United Kingdom
- M.Engg (Textile Engineering) from NED University of Engineering & Technology, Pakistan
- B.E (Textile Engineering) from NED University of Engineering & Technology, Pakistan

## EDUCATION

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### PhD in Textile Science & Technology

October 2012 — October 2015

*School of Materials, University of Manchester*

The research was based on the surface modification of sulphur dyed cotton fabric. A protective system was developed to resist the oxidation of the dyes during domestic laundering. X-Ray Photoelectron and Fourier Transform Infrared Spectroscopic techniques were utilised for analysing the surface chemistry of the modified cotton fabric.

### Masters of Engineering in Textile Technology

June 2008 — December 2010

*Textile Engineering Department, NED University of Engineering & Technology*

Secured First division with 3.8 GPA.

### Bachelors of Engineering in Textile Technology

January 1999 — December 2002

*Textile Engineering Department, NED University of Engineering & Technology*

Secured First division (78%).

## WORK EXPERIENCE

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### Textile Engineering Department, NED University Of Engineering & Technology

May 2009 — Present

*Assistant Professor*

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

Textile Department, Sindh National  
Textile College

October 2007 — April 2009

*Lecturer*

Delivered lectures on Colour Physics, Dyeing, Printing and Finishing.

Clariant Pakistan limited

September 2004 — March 2006

*Textile Lab Chemist*

Worked in textile dyeing and printing labs and had the responsibility of R&D, quality control and customer services of various textile mills. Also conducted a workshop relating to the comparison of Clariant's products with the competitors.

Textile Engineering Department, NED  
University Of Engineering & Technology

May 2004 — August 2004

*Full Time Researcher*

Worked with Dr. Faheem Uddin (Principal Investigator) on a mini research project in collaboration with Gul Ahmed Textile Mills. The project was aimed to modify the reactive dyed/printed cotton fabric pretreated with the cationic fixing agent and compare it with the mercerised fabric. The pretreated and dyed/printed fabrics were analysed for the colour strength, wash fastness and ground staining properties.

Umer Farooq Textile Mills

September 2003 — April 2004

*Trainee Engineer*

Supervision of weaving looms.

## INTERNSHIPS, TRAININGS AND WORKSHOPS

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### **Internship at ICI Chemicals Limited (July 1999)**

Based on testing of pretreatment and finishing auxiliaries.

### **Training at Clariant Pakistan Limited for four weeks (July 2000)**

Study and experiments on textile pretreatment and dyeing processes.

### **Internship at Al-Karam Textile Mills (July 2001)**

Observed spinning, weaving, dyeing and printing processes on the production floor.

### **Internship at ICI Chemicals Limited (June-August 2003)**

This was forty days training in which complete testing of the pretreatment and finishing auxiliaries was carried out. MSDS (Material safety data sheets) records of the processing lab were also updated.

### **Breakthrough Training Program at Clariant Pakistan limited (05/05/2005)**

This training session was conducted to enlighten the participants to integrate and implement strategies for making improvements in their personal and professional lives.

### **Professional Competency Enhancement Program for Teachers (PCEPT) (8-30 December 2011)**

This training was organised by National Academy of Higher Education Commission to enhance the presentation and communication skills of the university faculty and familiarise them with the modern teaching tools.

### **Attended following trainings/workshop at University of Manchester:**

Introduction to Research – Essentials (09/11/2012)  
Successful Searching (15/11/2012)  
Beginners Reference Management with Endnote (01/02/2013)  
Intellectual Property in the Research Context (05/02/2013)  
Academic Writing (21/02/2013)  
Graduate Teaching Assistant Training (25/06/2013)  
Optimising Research Posters (09/01/2014)  
Laser Safety Training (17/02/2014)  
Publishing Academic Papers (25/02/2014)  
Planning the Final Year (14/05/2014)  
Use of X-Ray Photoelectron Spectrometer (27/11/2015)

## **HONOURS AND ACTIVITIES**

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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 (University of Manchester) in 2014 and won 1<sup>st</sup> prize in the Faculty of Engineering and Physical Sciences (Textiles and Paper division).

## **REFERENCES**

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### **Dr. Sheraz Hussain Siddique**

Associate Professor  
Textile Engineering Department, NED University of Engineering & Technology  
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