

# DR SAIRA FAISAL

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## EXPERIENCE

JULY 2007 – TILL DATE

**ASSISTANT PROFESSOR**, NED UNIVERSITY OF ENGINEERING & TECHNOLOGY  
KARACHI

APRIL 2002 – JULY 2007

**LECTURER**, NED UNIVERSITY OF ENGINEERING & TECHNOLOGY KARACHI

MARCH 2001 – APRIL 2002

**LAB ENGINEER**, NED UNIVERSITY OF ENGINEERING & TECHNOLOGY KARACHI

## EDUCATION

MARCH 2014

**DOCTOR OF PHILOSOPHY**, UNIVERSITY OF LEEDS, UK

Title: Synthesis of Multifunctional Reactive Dyes and Their Application onto Wool Fabric by Inkjet Printing

JULY 2007

**MASTER OF ENGINEERING**, NED UET, PAKISTAN

MARCH 2001

**BACHELOR OF ENGINEERING**, NED UET, PAKISTAN

Secured First Class Third Position

## ACADEMIC ACHIEVEMENTS

- HEC Approved Supervisor
- Received scholarship to pursue PhD at University of Leeds, United Kingdom
- Received bursary of GBP 7500 towards PhD tuition fee from University of Leeds, United Kingdom
- Received Merit Certificate for securing First Class Third Position in Bachelor of Engineering

## RESPONSIBILITIES

- Lesson planning and delivery in line with Curriculum
- Conducting Practicals
- Member OBE Committee
- Member Course Revision Committee
- Member Project Committee
- Member Board of Studies
- Supervisor for Independent Study Projects
- Supervisor for Final Year Design Projects
- Class Advisor
- Member Internal Audit Team

## PUBLICATIONS

1. **Faisal S**, Ali M, Siddique S and Lin L, Inkjet Printing of Silk: Factors Influencing Ink Penetration and Ink Spreading. *Pigment & Resin Technology*. 2020 In Press.
2. **Faisal S**, Lin L and Clark M, Synthesis, stability and printing properties of a novel 2-sulphophenoxy-4-chloro-s-triazine reactive dye for ink-jet printing of wool. *Coloration Technology*. 2020;136:153-166.
3. **Faisal S** and Lin L, Green synthesis of reactive dye for ink-jet printing. *Coloration Technology*. 2020;136:110-119.
4. Siddique H, **Faisal S**, Zahid B and Wang C, Tensile Properties of Bagasse Fiber Composites. *Mehran University Research Journal of Engineering and Technology*. 2019, In Press.
5. **Faisal S**, Tronci A, Ali M, Lin L and Mao N, Pretreatment of silk for digital printing: identifying influential factors using fractional factorial experiments. *Pigment & Resin Technology*. 2019;49:145-153.
6. **Faisal S**, Tronci A, Ali M, Bashir E and Lin L, Right-first-time dyeing: a design of experiments approach for the optimisation of dyeing-processes using hard water. *Pigment & Resin Technology*. 2019;48:449-455.
7. Ali M, Lin L, **Faisal S**, Ali Syed R and Ali Syed I, Let-down stability and screen printability of inks prepared using non-printing ink grades of carbon black pigment. *Pigment & Resin Technology*. 2019;48:523-532.
8. Ali M, Lin L, **Faisal S**, Sahito Iftikhar A and Ali Syed I, Optimisation of screen printing process for functional printing. *Pigment & Resin Technology*. 2019;48:456-463.
9. Azeem F, Mao N and **Faisal S**, Effect of alkali treatment of lower concentrations on the structure and tensile properties of Pakistan's coarse cotton fibre. *The Journal of The Textile Institute*. 2019;110:1499-1507.
10. **Faisal S**, Farooq S, Hussain G and Bashir E, Influence of Hard Water on Solubility and Colorimetric Properties of Reactive Dyes. *AATCC Journal of Research*. 2019;6:1-6.
11. **Faisal S** and Tronci A, Predictive Modelling of Colour Strength and Ink Penetration (%) of Inkjet-Printed Cotton. *Fibers and Polymers*. 2018;19:1435-1443.
12. Zahid B, **Faisal S** and Siddique H, Analysis of Caustic Soda of Different Manufacturers in Pakistan for Mercerization of Cotton Textiles. *Mehran University Research Journal of Engineering and Technology*. 2017;36:857-866.

## CONFERENCE PUBLICATIONS

1. **Faisal S** and Lin L, Microwave-Assisted Green Synthesis of Reactive Dyes for Digital Printing. In 4th NED International Textile Conference. 2020. Karachi, Pakistan.
2. **Faisal S** and Lin L, Green Synthesis of Reactive Dyes for Inkjet Printing. Proceedings of Icontex 2019. 2019. April 17th – 18th 2019, Corlu, Turkey, p. 436-443
3. **Faisal S**, Lin L and Clark M, Triazine Based Reactive Dye for Inkjet Printing of Wool. Proceedings of Iconwoolf 2019. 2019. April 19th 2019, Corlu, Turkey, p. 143-152
4. **Faisal, S**, Lin L, and Clark. M, Novel Reactive Dyes and their Application onto Textile Substrates by Inkjet Printing. in NIP & Digital Fabrication Conference. 2013: Society for Imaging Science and Technology. September 29th – October 3rd 2013, Seattle, United States of America, p. 168-170
5. **Faisal, S**, Lin L, and Clark. M,. “Novel Reactive Colorants and Their Application onto Textile Substrates by Inkjet Printing”. Proceedings Of “AIC Colour 2013: 12th Congress of the International Colour Association”. 8th – 12th July 2013, Newcastle-Upon Tyne, United Kingdom, P. 601-604
6. **Faisal S** and Lin L, Microwave-assisted green Synthesis of Reactive Dyes for digital Printing. NEDITC 2020. March 2nd – 3rd, 2020; Karachi, Pakistan p. 31
7. **Faisal S**. Predictive modeling and optimization of printing properties on inkjet-printing of cotton. In 5th International Conference on Value Addition and Innovations in Textiles 2019. Faisalabad, Pakistan.

## SKILLS

- Microsoft Office, Minitab, OriginPro and ChemDraw
- Design of Experiments
- Fluent in Urdu and English

## CORE COURSES

- Textile Finishing
- Pre-treatment in Textiles
- Textile Chemical Processes II
- Polymer & Fiber Science
- Textile Product Evaluation I
- Textile Raw Materials I
- Textile Raw Materials II
- Machine Design
- Textile Mill Utilities - I

## COURSES AND TRAINING

- Attended and passed LRCA Quality Management System Lead Auditor Training Course by based on ISO 9001:2015 in 2017
- Attended and passed the IATCA compliant ISO 9000:2000 Series Auditor/Lead Auditor Training Course NO. A18021 by IRCA
- Advance Course on “CAD/CAM Fabric Designing System” conducted by SMA Rizvi Textile Institute
- Attended and passed the ISO 9000:2000 Series Internal Auditor Training Course by PIQC organized

## **PROFESSIONAL MEMBERSHIP**

- Pakistan Engineering Council since 2001
- NEDAN since 2006
- Alumni University of Leeds since 2014
- AATCC Senior Member