

MUHAMMAD ALI

Lecturer

Department of Textile Engineering,
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RESEARCH EXPERIENCE

My principle research interests lie in the field of formulation, characterisation and application of electrically conductive inks. I am currently investigating potential conductive filler materials such as carbon black, carbon nanotubes, conductive polymers and metal nano-particles for screen printing inks and performance evaluation of printed patterns on textile substrates for my PhD. My further research plans are to build on the foundations of my PhD to further develop functional textiles for different sectors.

- Participated in WCPC (Welsh Centre of Printing and Coating) Annual Technical Conference 2010, Swansea, UK.
- Presented research work in OCCA Student Showcase 2010, University of Leeds, UK.
- Poster presentation on 'Printed Electronic Textiles' in the annual post-graduate workshop, July 2011, University of Leeds, UK.
- Invited talk on 'Potential of Printed Electronics' for MSc students, School of Chemistry, University of Leeds, UK.
- Presented research on 'Current and Future Technologies in Electronic Textiles' in the Annual Salters Chemistry Camp 2011, School of Chemistry, University of Leeds, UK.

EDUCATION

In progress **PhD 'Preparation, characterization and application of printed electronic textile assemblies'**
Department of Colour Science, University of Leeds, UK.
Supervisor: Prof. Long Lin

2007-2008 **Masters Textile Engineering (CGPA 4.0)**, NED University of Engineering and Technology, Karachi.

2003-2007 **Bachelors Textile Engineering (79.6%)**, NED University of Engineering and Technology, Karachi.

TEACHING/ADMINISTRATION EXPERIENCE

2007 – to date **Lecturer** – Department of Textile Engineering, NED University of Engineering and Technology, Karachi.

- Teaching at undergraduate level.
- Supervision of undergraduate engineering design projects
- Member Board of Studies – Department level

PUBLICATIONS

- Patent 139652, Title: Straightener to remove compound distortions in weft threads and printed designs, filed at the Pakistan Patent Office.
- Registered Design 13049-D, Title: Straightener to remove weft distortions and design deviations, filed at the Design branch of the Pakistan Patent Office.

PROFESSIONAL MEMBERSHIPS

- NEDAN
- Pakistan Engineering Council
- Society of Dyers and Colorists
- Oil and Colour Chemists Association
- World Intellectual Property Organisation