

Bio-Data

Dr. Bilal Zahid

PhD (Textile Science & Technology), M.Engg. (Textile Engineering),
M.B.A. (Textile Management), B.E. (Textile Engineering).
Contact: drbilalzahid@neduet.edu.pk

Interests

Conventional Textiles, Technical Textiles, Protection Textiles, Textile Composites, Finite Modelling & Simulation, 3-Dimensional Weaving, Fabric Designing and Manufacturing (Weaving, Knitting, Braiding and Nonwoven) and Clothing Technology.

Education

The University of Manchester, England, United Kingdom.

Doctor of Philosophy (PhD), Textile Science & Technology, 2008 - 2012

NED University of Engineering and Technology, Karachi, Pakistan.

Master of Engineering (M.Engg.), Textile Engineering, 2005 - 2007

Preston Institute of Science & Technology, Karachi, Pakistan.

Master of Business Administration (M.B.A.), Textile Management, 2002 - 2003

NED University of Engineering and Technology, Karachi, Pakistan.

Bachelor of Engineering (B.E.), Textile Engineering, 1997 - 2001

Adamjee Government Science College, Karachi, Pakistan.

Higher Secondary School Certificate (H.S.C.), Pre-Engineering, 1995 - 1996

Chiniot Islamia Public School, Karachi, Pakistan.

Secondary School Certificate (S.S.C.), Science, 1993 - 1994

Publications

Analysis of Caustic Soda of Different Manufacturers in Pakistan for Mercerization of Cotton Textiles

Mehran University Research Journal of Engineering & Technology, Pakistan. Date of acceptance for publication, November 22, 2016.

Effect of liner for single-piece continuously textile reinforced riot helmet shells.

Journal of Industrial Textiles, SAGE Published, United Kingdom. January 28, 2015.
International Journal Publication

Mechanical Properties of Composites Made from Locally Manufactured Carbon Fabrics and the Composites Produced from Air-Textured Glass Yarns.

Fibres and Polymers, Springer Link, Published USA. March 01, 2014
International Journal Publication.

Energy Absorption at Different Impact Locations of Riot Helmet Shells

International Journal of Textile Science. Scientific & Academic Publishing. USA. October 25, 2013.

International Journal Publication

Development of an Impact Simulation Model of Riot Helmets Shells

Journal of Safety Engineering. Scientific & Academic Publishing, USA. March 2013.

International Journal Publication

Development of a Helmet Test Rig for Continuously Textile Reinforced Riot Helmets

International Journal of Textile Science. Scientific & Academic Publishing, USA. February 2013.

International Journal Publication

Impact Evaluation of Kevlar Based Angle-Interlock Woven Textile Composite Structures

Journal of Reinforced Plastics and Composites, SAGE Published, United Kingdom. January 20, 2013.

International Journal Publication

Performance Enhancement of Fire Retardant Finish with Environment Friendly Bio Cross-Linker for Cotton

Journal of Cleaner Production, Elsevier Published, USA. January 18, 2013.

International Journal Publication

Impact Performance of Single-Piece Continuously Textile Reinforced Riot Helmet Shells

Journal of Composite Materials, SAGE Published, United Kingdom. January 13, 2013.

International Journal Publication

Properties of Five Layer Angle-Interlock Kevlar based Composite Structure Manufactured from Vacuum Bagging

The Journal of Composite Materials, SAGE Publications Ltd, United Kingdom. October 23, 2012.

International Journal Publication

Moulding of Single-Piece Woven Fabrics for Protective Helmets --- A review and future work

Proceedings to the 4th World Conference on 3D Fabrics and Their Applications: 4th World Conference on 3D Fabrics and Their Applications; 10 Sep 2012-11 Sep 2012; Aachen, Germany. Manchester: TexEng/RWTH Aachen; 2012. September 11, 2012.

International Poster Presentation & International Conference Publication

Manufacturing of Single-Piece Textile Reinforced Riot Helmet Shell from Vacuum Bagging

The Journal of Composite Materials, SAGE Publications Ltd, United Kingdom. August 29, 2012.

International Journal Publication

Riot Helmet Shells with Continuous Reinforcement for Improved Protection

Doctor of Philosophy Thesis, Textile Science & Technology. The University of Manchester, England. UK. November 29, 2011.

Thesis Publication

Riot Helmet Shell with Continuous Textile Reinforcement for Improved Protection

3rd World Conference on 3D fabrics and their applications, Wuhan Textile University, Wuhan, PR. China. April 21, 2011.

International Conference Publication

Characterisation of Riot Helmets with Continuous Textile Reinforcement for Impact Protection

Materials Post Graduate Conference, Renold Building, University of Manchester, UK. May 21, 2010.

Conference Presentation, The University of Manchester, UK.

Characterisation of Riot Helmets with Continuous Textile Reinforcement for Impact Protection

Materials Post Graduate Conference, Renold Building, University of Manchester, UK. May 21, 2009.

Poster Presentation

Awarded 3rd Prize - Textiles and Paper Category

Conference Presentation, The University of Manchester, UK.

Riot Helmet Shell with Continuous Textile Reinforcement for Improved Protection

Materials Post Graduate Conference, Renold Building, University of Manchester, UK. May 19, 2008.

Conference Presentation, The University of Manchester, UK.

Other Research Activities and Services

Industry Funded Project

Project # 1

Work as “**Principal Investigator**” in the project title “To investigate the effect of caustic soda on fabric properties after the processes of scouring and mercerization”. The project funding was Rs. 200,000/- The project has been successfully completed and delivered to M/s. Engro Polymer and Chemicals. It was the **first industry funded project delivered by the Textile Engineering Department, NED University of Engineering & Technology, Karachi.**

Project # 2

Work as “**Co-Investigator**” in the project title “Initial on the utilization of EPCL effluent water in Textile Industry”. The project has been successfully completed and delivered to M/s. Engro Polymer and Chemicals. This was an unpaid project for a month and delivered by the Textile Engineering Department, NED University of Engineering & Technology, Karachi.

Manuscript Reviewer

- Currently Manuscript Reviewer in the following International Journals:
 - Journal of Industrial Textiles (JIT)
 - Textile Research Journal (TRJ)
 - International Journal of Textile Science (IJTS)
- Manuscript Reviewer in the 1st NED International Textile Conference on Research, Innovation and advancement held on March 13, 2014 at NED University of Engineering & Technology, Pakistan.
- Manuscript Reviewer in the 2nd NED International Textile Conference on Research, Innovation and advancement held on February 17-18, 2016 at NED University of Engineering & Technology, Pakistan.
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- Manuscript Reviewer in The Third International Conference on Advanced Composite Materials and Technologies for Aerospace Applications held on May 13-16, 2013 at Glyndwr University, Wrexham, North Wales, UK.

Notable Committees/Trainings

- Nominated as a member in “EPE Curriculum & Expert Committee for Textile Engineering” by PEC via Notification PEC/EPE/Curriculum/2017 dated 17th January, 2017.
- Member “Fund raising and preparation of admission booklet” committee as per No. Dr (Estab) / (1003) Vol-VI/9020 dated 19-08-2016.
- Attended seminar on Textile Industry Management for Pakistan –I at China w.e.f. 14-09-2015 to 15-10-2015 via office order DR(Estab)/Pers. No. 1907/Vol-II/9672.

HEC Approved PhD Supervisor

Via letter 1-107/HEC/HRD/E&T/2015/39(8)

Research Project Supervisor

Worked as Project Supervisor Textile Engineering Department for Final Year Engineering Design Projects.

Year 2017

- Development and simulations of multilayer fabric and composite structures for industrial applications.
- Development of helmet shells for industrial applications.
- Manufacturing of an electro-conductive cotton textiles using graphene.

Year 2016

- Optimisation of the thermally insulated composite materials.
- To design absorbency measuring device in sizing material and integrate it with machine standard operations.
- Industrial belts for loading applications.

Year 2015

- Designing, development and analysis of cotton composite structures for thermal insulations.
- Designing, development and comparative analysis of different varieties of belts for industrial applications.
- To manufacture and characterize fibre glass Kapok hybrid composite.

Year 2014

- Development of col resistant glove.
- To design a system which reduces the cropping percentage during stages of manufacturing of towels (weaving and wet processing)
- To study, manufacturing and analysis of woven composites.
- To study, manufacture and analyse Kapok fibre composites.

Year 2013

- Manufacturing and evaluation of cotton based composite structures
- To design a puncture resistant glove
- Modifying ring spinning machine of yarn manufacturing laboratory for the production of slub and siro yarns.
- To investigate the possibilities of producing yarn nonwoven fabrics from cotton silk fibre.

Year 2012

- Design of an ETP plant using ultra filtration membrane.

Organiser International Textile Conference

- Participated as Member Organising Committee of the 1st NED International Textile Conference 2014 held on March 13, 2014.
- Participated as Member Organising Committee of the 2nd NED International Textile Conference 2016 held on February 17-18, 2016.

Honours

Key note speaker and Session Chair

- Key note speaker in 1st International Conference on Advance material and Processing organised by Mehran University dates February 28 – March 02, 2017 at Mehran University Jamshoro.
- Session Chair in 1st International Conference on Advance material and Processing organised by Mehran University of Engineering & Technology dates February 28 – March 02, 2017 at Mehran University of Engineering & Technology Jamshoro.

Best Research Paper Award

- Received letter of commendation and cash prize from the NED Alumni Association of Southern California in 2014 for the category of Associate Professor.
- Received letter of commendation and cash prize from the NED Alumni Association of Southern California in 2015 for the category of Associate Professor.

Gold Medal

- 1st Position in Master of Business Administration, Preston Institute of Management, Science & Technology, 2003.

3rd Prize Textiles and Paper

- Awarded 3rd best poster in the Textiles and Paper category, Materials Post-Graduate Conference, Renold Building, The University of Manchester, UK. May 2009.

High Profile Star

- Attended Chiniot Islamia Public School's Silver Jubilee Annual function, as a High Profile Star of Chiniot Islamia Public School. News and article published in The Daily Dawn, February 11, 2012.

Scholarship for pursuing PhD degree

- Scholarship amounting Rs. 10.163 million was awarded for pursuing PhD degree at University of Manchester, UK. January 2008.

Scholarship for MBA

- Scholarship was awarded for the MBA degree at Artistic Denim Mills. June 2001.

Member Pakistan Engineering Council

- Life-time membership as Professional Engineer, Pakistan Engineering Council since November 2001.

Member Textile Institute UK

- Member Textile Institute UK since 2009

NED University Alumni Network (NEDAN)

- Member NEDAN since 2006

Your Manchester Online

- Member Manchester University Alumni since 2012

Experience

Ag. Director CCEE (BPS-20 Adhoc) at Centre for Continuing Engineering Education, NED University of Engineering & Technology

Key responsibilities involve:

- Signing and award certificates to participants of all courses in certificate award ceremony.
- To Facilitating in preparation of MoUs, collaboration with various organizations / bodies.
- Getting short courses devised / designed through experts / faculty members and getting them vetted through Chairpersons of the concerned Departments.

- To course launch (advertisement and mailing) and organize short certificate courses in Engineering, IT and Management at appropriate venue of University, to enable professionals to keep pace with current developments.
- To organizing the orientation and certificate ward ceremonies of course(s).
- Organizing printed and other materials for courses.
- Liaisoning with other departments such as Services / Registrar, Finance, Procurement and Audit.
- Arranging procurement of equipment furniture and other items as per procurement procedure.
- Deciding to accept / reject proposal prepared by Assistant Director, for disposal of surplus and unserviceable stores of CCEE.
- Periodically check of Consumable / Dead Stock Register and Imprest / Requisition Book and getting them audited.
- Announcement of Results: PGCC (preparation of grade sheets, Certificates & getting transfer of credit hours by CoE.
- Administering CCEE's smooth running, assigning work load to staff, signing ACRs of CCEE officers & annual report of employees and forward to University authorities. Checking of all payment, receipt, bills, costing reports and signing cash book reconciled.
- Administration for Marketing Activity.
- Correspondence with external organizations for nominating their staff for the CCEE short courses.
- Income & expenditure Statements of Short Courses, PIQC course, PGC courses consolidated, for necessary onward approval.
- Any other responsibilities assigned by DG Academy or higher authorities from time to time.

Associate Professor (BPS-20 Adhoc) at NED University of Engineering & Technology
May 2012 – till today

Teaching Responsibilities

- During said period involved as Subject Teacher in following theory courses:

Masters (Evening Programme)

Year 2017

- Research Methodology (TS-556)

Year 2015

- Accounting and Financial Management (EM-502)

Year 2014

- Textile Brand Management and Marketing (TE-553)

Year 2013

- Textile Quality Assurance (TE-501)

Bachelor (Morning Programme)

Year 2017

- Introduction to Textile Engineering (TE-103)
- Weaving Mechanism (TS-343)
- Material Science (ME-208)
- Textile Production Management (TE-406)

Year 2016

- Introduction to Textile Engineering (TE-103)
- Material Science (ME-208)
- High Performance Fibres (TS-207)
- Advance Fabric Manufacturing Mechanisms (TE-462)

Year 2015

- Introduction to Textile Engineering (TE-103)
- Material Science (ME-208)

Year 2014

- Introduction to Textile Engineering (TE-103)
- Material Science (ME-208)
- Machine Design (ME-305)
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402)

Year 2013

- Introduction to Textile Engineering (TE-103)
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402)

Year 2012

- Textile Production Management (TE-406)
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402)
- Material Science (ME-208)
- Quality Control in Textiles (TE-406)

- Involved as Practical Teacher in following courses.

Year 2016

- Advance Fabric Manufacturing Mechanism (TE-462)

Year 2015

- Introduction to Textile Engineering (TE-103)

Year 2014

- Introduction to Textile Engineering (TE-103)
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402)

Year 2013

- Introduction to Textile Engineering (TE-103)
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402)

Year 2012

- Material Science (ME-208)
- Advance Yarn & Fabric Manufacturing Mechanisms (TE-402)

Administrative Responsibilities

Year 2017

- **Acting Director** ‘Centre for Continuing Engineering Education’ (CCEE)
- Class Advisor – First Year Textile Engg. / Second Year Textile Engg.
- In-charge Fabric Manufacturing Laboratory
- Invigilator and Examiner during examinations
- Final year Textile Engineering Projects Supervisor
- Examiner for NED Independent study project.

Year 2016

- Acting Director ‘Centre for Continuing Engineering Education’ (CCEE)
- Class Advisor – First Year Textile Engg. / Second Year Textile Engg.
- In-charge Fabric Manufacturing Laboratory
- Member Curriculum Revision Committee
- Invigilator and Examiner during examinations
- Final year Textile Engineering Projects Supervisor
- Examiner for NED Independent study project.

Year 2015

- Class Advisor – First Year Textile (Spring Semester)
- Class Advisor – Second Year Textile (Fall Semester)
- In-charge Fabric Manufacturing Laboratory
- In-charge Dyeing & Finishing Laboratory
- Member Curriculum Revision Committee
- Invigilator and Examiner during examinations
- Final year Textile Engineering Projects Supervisor
- Examiner for NED Independent study project

Year 2014

- Class Advisor – First Year Textile (Spring Semester)
- Class Advisor – Second Year Textile (Fall Semester)
- In-charge Fabric Manufacturing Laboratory
- Final year Textile Engineering Projects Supervisor
- Member Final Year Project Committee
- Member Charter Inspection & Evaluation Committee, Education Department Government of Sindh
- Invigilator and Examiner during examinations
- Organizing member of ITCNED conference held March 13, 2015.
- Examiner for NED Independent study project

Year 2013

- Class Advisor – First Year Textile (Spring Semester)
- Class Advisor – Second Year Textile (Fall Semester)
- In-charge Fabric Manufacturing Laboratory
- Final year Textile Engineering Projects Supervisor
- Member Final Year Project Committee
- Member Internship Committee
- Invigilator and Examiner during examinations
- Examiner for NED Independent study project

Year 2012

- Member Curriculum Revision Committee, Year 2012
- Final year Textile Engineering Projects Supervisor
- Member Charter Inspection & Evaluation Committee, Education Department Government of Sindh.
- In-charge - Store & TIPC NEDUET
- Invigilator and Examiner during examinations

Assistant Professor (BPS-18) at NED University of Engineering & Technology

December 2006 – May 2012

- From March 2008 to February 2012 was on study leave for PhD degree.

Teaching Responsibility

Year 2007

- During the remaining period involved as Subject Teacher in following theory course – Textile Fabric Manufacturing Processes (TE-302)
- Involved as Practical Teacher in following course – Textile Fabric Manufacturing Processes (TE-302)

Administrative Responsibilities

January 2007- March 2008

- Class Advisor – Third Year Textile Engineering
- Member Final Year Project Committee
- In-charge Fabric Manufacturing Laboratory
- Nominee from Textile Engineering Department for attesting PEC registration forms
- Nominee from Textile Engineering Department for monitoring students during co-curricular activities
- Invigilator and Examiner during examinations

Assistant Professor (BPS-18) at NED University of Engineering & Technology

November 2006 - December 2006

- Involved in making lectures for course TE-302 which were delivered in 2007.
- Invigilator and Examiner during examinations

Production Manager at X-pertex Denim

August 2006 - November 2006

- Involved with the planning, coordination and control of manufacturing processes.
- Ensures that goods and services are produced efficiently.
- Ensure the correct amount is produced at the right cost and at the right level of quality.
- Responsible for both human and material resources.

Key responsibilities involve:

- Overseeing the production process, drawing up a production schedule
- Ensuring that the production is cost effective
- Making sure that products are produced on time and are of good quality
- Working out the human and material resources needed
- Drafting a timescale for the job
- Estimating costs and setting the quality standards
- Monitoring the production processes and adjusting schedules as needed
- Responsible for the selection and maintenance of equipment
- Monitoring product standards and implementing quality-control programmes
- Liaising among different departments
- Working with managers to implement the company's policies and goals
- Ensuring that health and safety guidelines are followed
- Supervising and motivating a team of workers
- Reviewing the performance of subordinates
- Identifying training needs

The roles tend to be more closely integrated with other functions, such as marketing, sales and finance.

Manager Operations & Administrator at S. M. Traders (Denim Unit)

March 2006 - August 2006

Key responsibilities involve:

- Oversees the daily sales and Operations of the Plant
- Hire train and evaluate core teams in the business
- Oversee the plants procedures and policies
- Set and maintain productivity and quality standards
- Distribute daily workloads to the plant Managers
- Work with sales to determine Pricing
- Ensure Customer excellence and delivery of Quality products
- Oversee inventory in the plant, Purchasing, and Finance
- Materials Management departments, and manage Vendor relations

Production Manager at Rajby Textile (Pvt) Ltd. (Denim Unit)

April 2005 - March 2006

Key responsibilities involve:

- Overseeing the production process, drawing up a production schedule
- Ensuring that the production is cost effective
- Making sure that products are produced on time and are of good quality

- Working out the human and material resources needed
- Drafting a timescale for the job
- Estimating costs and setting the quality standards
- Monitoring the production processes and adjusting schedules as needed
- Responsible for the selection and maintenance of equipment
- Monitoring product standards and implementing quality-control programs
- Liaising among different departments
- Working with managers to implement the company's policies and goals

Production Coordinator at Naveena Exports (Pvt) Ltd. (Denim Unit)

September 2004 - April 2005

Key responsibilities involve:

- Involved with the planning, coordination and control of manufacturing processes
- Ensures that goods and services are produced efficiently
- Overseeing the production process, drawing up a production schedule
- Making sure that products are produced on time and are of good quality
- Working out the human and material resources needed
- Drafting a timescale for the job
- Monitoring the production processes and adjusting schedules as needed
- Monitoring product standards and implementing quality-control programs
- Liaising among different departments

Assistant Manager Exports at Mekotex (Pvt) Ltd. (Denim Unit)

January 2003 - September 2004

Key responsibilities involve:

- Explore different ways to improvise and increase the sales of the existing products.
- Able to create, develop and implement different strategies to market the new products of the organization in a strong manner
- Study the services and products of the competitors and develop strategies to get an upper hand.
- Execute different marketing campaigns to promote the products of the organization online or through advertisements
- Directs foreign sales and service outlets of an organization: Negotiates contracts with foreign sales and distribution centers
- Directs conversion of products standards and specifications to ensure efficient operation under foreign conditions.
- Arranges shipping details, such as export licenses, customs declarations, and packing, shipping, and routing of product.
- Expedites import-export arrangements and maintains current information on import-export tariffs, licenses, and restrictions.

Production Coordinator / Export Marketing Executive at Artistic Denim Mills

January 2001 - January 2003

Key responsibilities involve:

- Involved with the planning, coordination and control of manufacturing processes.
- Overseeing the production process, drawing up a production schedule

- Making sure that products are produced on time and are of good quality
- Working out the human and material resources needed
- Drafting a timescale for the job
- Monitoring the production processes and adjusting schedules as needed
- Monitoring product standards and implementing quality-control programs
- Liaising among different departments
- Explore different ways to improvise and increase the sales of the existing products thereby ensuring that the marketing goals are achieved as designed by the company
- Directs clerical staff in expediting export correspondence, bid requests, and credit collections
- Arranges shipping details, such as export licenses, customs declarations, and packing, shipping, and routing of product.
- Expedites import-export arrangements and maintains current information on import-export tariffs, licenses, and restrictions.

Trainee at Moon Light Industries

August 1999 - August 1999

Monitor and enhance the understanding for wet processing of woven fabric.

Trainee at Pak-Denim Limited

June 1999 - July 1999

Monitor and enhance the understanding for Denim manufacturing processes.

Volunteer Experience

1999

Engineering Student at NED University of Engineering & Technology, Karachi. Involve in the installation and commissioning of machines in Textile Weaving Laboratory

Certifications / Trainings

2nd All Pakistan Dice Textile Innovation Event by NTU

March 2017

Entrepreneurship Educators Symposium 2016 by IBA

March 2016

Second Internationals Textile Conference NEDITC 2016

Organised February 2016

Second Internationals Textile Conference NEDITC 2016

Participated February 2016

HEC Indigenous On Campus Training of Project Management

November 2015

Seminar on Textile Industry Management for Pakistan –I at China
October 2015

Developing Industry Driven Technology
January 2015

Technical Computing with MATLAB
December 2014

Technology for teaching and learning
June 2014

First Internationals Textile Conference NEDITC 2014
March 2014

I.T. Tools for academic Profession
September 2013

Duties and responsibilities on Invigilator and Examiner
Examiner February 2013

Duties and Responsibilities of Class Advisors
January 2013

Library Facilities
February 2012

Effective Teaching Practice
April 2012

Auditing To ISO 9000 - System.9000 License ADML/Aud.9000
February 2002

Integrated Management System - Quality Consulting Services License IMS-001
2000

YX Weave Platinum Jacquard Module -Yxendis
February 2007

Graduate Assessment Test - National Testing Service
January 2007

International English Language Testing System British Council License PK010
November 2007

Intermediate Level Course in Communicative English - Department of Humanities
NEDUET
April 1998

Skills & Expertise

Research
Product Development
Analysis
Project Planning
Product Management
Management Consulting
Software Development
Teaching
Team Leadership Problem Solving
Consultancy
Marketing Research
Marketing Management
Event Planning
Training & Development
Finite Element Analysis

Languages

English (Full professional proficiency)
Urdu (Full professional proficiency)
Sindhi (Limited working proficiency)
Punjabi (Limited working proficiency)
German (Elementary proficiency)

Personal Details

NICOP No. 42501-4761900-5
Birthday May 21, 1978
Marital Status Married

Advice for Contacting

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