DR. HAKEEM-UR-REHMAN

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Institute of Quality & Technology Management, New Campus,

University of the Punjab, Lahore, Pakistan

RESEARCH INTEREST

Operations & Supply Chain Management, Total Quality Management, Business Analytics, and Optimization

TEACHING INTEREST

Operations & Supply Chain Management, Statistics and Probability, Business Analytics, Optimization Methods, Total Quality Management, Lean Six Sigma, Simulation & Modelling, Project Management

EDUCATION

Ph.D. Management Science and Engineering	2013 - 2019
Specialization in Operations & Supply Chain Management	
Shanghai Jiao Tong University, Shanghai, China	
MS Total Quality Management	2005 - 2007
University of the Punjab, Lahore, Pakistan	
Master in Information & Operational Management	2002 - 2004
Specialization in Operations Research	
University of the Punjab, Lahore, Pakistan	

WORK EXPERIENCE

Teaching Experience:

- Assistant Professor (*Dec 2022 to date*), Supply Chain & Project Management Center, University of the Punjab, Lahore, Pakistan.
- Assistant Professor (*Oct 2019 to Nov 2022*), Institute of Quality & Technology Management (IQTM), University of the Punjab, Lahore, Pakistan.
- Research Assistant (*Sep 2018 Jan 2019*), Antai College of Economics & Management, Shanghai Jiao Tong University, Shanghai, China.
- Lecturer (*Sep 2007 Aug 2013*), Institute of Quality & Technology Management (IQTM), University of the Punjab, Lahore, Pakistan.
- Visiting Faculty Member
 - FAST School of Computing, National University of Computer and Emerging Sciences, Lahore, Pakistan, (August 2022 to date).
 - Punjab College of Business Administration (PCBA), University of Central Punjab, Lahore, Pakistan, (July 2007 May 2011).
 - Imperial College of Business Studies, Lahore, Pakistan, (May 2011 Aug 2012).
 - Institute of Management Science (Pak-Aims), Lahore, Pakistan, (March 2013 June 2013).
- Paper Setter and Head Examiner, Production & Operations Management, M. Com Part–II (2011), University of Sargodha, Sargodha, Pakistan

Professional Consultancy & Trainings / Workshops Experience:

- As a National Expert: Productivity (Lean, Six Sigma) Module development in Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Project Process no.: 19.2141.0 – 001.00, Improvement of labour, social and environmental standards in the Pakistan textile industry: Scaling up of DfS methodology for multipliers", (September 09, 2022 to November 15, 2022)
- As a *Quality & Productivity (National Expert)* in Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) Project no.: 81274313 & *PN*2201_*UT*609, "Implementation of the DfS methodology in selected partner enterprises in the textile sector of Pakistan", (*Jan 28, 2022 to Aug 30, 2023*)
- Two Days training on Forecasting & Inventory Management organized by Asian Institute of Industrial Air (AIIA), Islamabad, Pakistan (*May*, 2022)
- Four & Eight Days training on Lean Six Sigma (Green Belt & Black Belt) organized by Bilal Consultancy Limited, Multan, Pakistan (*Nov, 2020 & Feb, 2021*)
- Two Days training on Lead Time Reduction with Lean Thinking organized by Institute of Quality and Technology Management, University of the Punjab, Lahore, Pakistan (Jan 30-31, 2020)
- Two Days training on Lean Thinking: Process mapping to Value stream mapping organized by National Textile University, Faisalabad, Pakistan (*Oct 05-06, 2019*)

In-House Professional Trainings:

- "Lean Thinking " (Nov 01, 2019) at Nishat Mills limited, Faisalabad, Pakistan
- At Haier Training Institute, A Project of Haier & Ruba (Pvt.) Limited., Lahore, Pakistan
 - "Production Planning & Control" (Feb 12-14, 2015)
 - "Statistical Process Control Using Excel" (Feb 26, 2015)

- "Data Analysis using Minitab" (March 3-4, 2015)
- "Process Analysis & Improvement Techniques" (March 12, 2015)

National Productivity Organization (NPO), Ministry of Industries, Pakistan

(June 2012 to November 2020) Trainer & Consultant:

- Online training on "Production Planning and Inventory Control" (September 3, 2020)
- Twelve Days training on Development of Productivity Specialist: Topic covered as Resource Person "Quality Improvement Tools Using M.S. Visio & Excel "(Three Days).
- "Six Sigma (Green Belt)" (Aug 27-30, 2013) & "Lean Six Sigma (Green Belt)" (April 15-18, 2013).
- "Project Management through P6" (Aug 23-25, 2012).
- Train the Trainers on Lean Management: Topic covered as Resource Person "Quality Improvement Tools Using Minitab & Calculating OEE" (July 11-14, 2012).

Guest Lectures:

- California State University Northridge, USA.
 - "Best practices in Lean and Six Sigma" (May 05, 2022)
 - "Application of R program in Business Analytics" (April 29, 2022)
- Pakistan Society of Industrial Engineering
 - "Time Series Forecasting Using Python" (August 5, 2020)
 - "Supply Chain Analytics Using Python" (July 17, 2020)
 - "Data Visualization Using Python" (July 5, 2020)
 - "Big Data Analytics Using Python" (June 22, 2020)
 - "Lean Six Sigma: An Overview" (April 5, 2015)
 - "Application of Operations Research Techniques for Industrial Engineers" (Nov 29, 2014)
- National Textile University, Faisalabad
 - "Lean Six Sigma: An Overview" (Feb 26, 2015)
- University of Sargodha, Sargodha, Pakistan
- "Statistical Process Control" (May 26, 2010)

RESEARCH PUBLICATIONS

- <u>Hakeem-Ur-Rehman</u>, Guohua Wan, Raza Rafique (2023), A hybrid approach with step-size aggregation to forecasting hierarchical time series. Journal of Forecasting, Vol. 42, Iss: 1, pp. 176-192 (Q1 Journal - IF = 2.627)
- Muhammad Adnan Zahid Chudhery, Sarah Safdar, <u>Hakeem-Ur-Rehman</u>, Raza Rafique, Muhammad Ali & Fenggang Li (2022), M-health services equipped with public sector community health centers (MH-PS-CHCs), an emerging public-private joint venture in China: adoption from M-health Users' Perspective. Technology Analysis & Strategic Management, (Accepted 'DOI:10.1080/09537325.2022. 2117598': IF = 2.874)
- 3. Sumreen Zia, Raza Rafique <u>Hakeem-Ur-Rehman</u>, Muhammad Adnan Zahid Chudhery (2022), A comparison between E-TailQ and E-S-Qual for measuring e-service quality in retail industry: An emerging economy case. The TQM Journal, (Accepted 'DOI: 10.1108/TQM-02-2022-0052': Q2 Journal)
- Sarah Safdar, Minglun Ren, Muhammad Adnan Zahid Chudhery, Jiazhen Huo, <u>Hakeem-Ur-Rehman</u>, and Raza Rafique (2022), Using Cloud-based Virtual Learning Environments to Mitigate Increasing Disparity in Urban-Rural Academic Competence, Technological Forecasting and Social Change, Vol. 176,121468 (Q1 Journal – IF = 8.593)
- 5. Umair Manzoor, Sajjad Baig, Muhammad Hashim, Abdul Rehman, <u>Hakeem-Ur-Rehman</u>, and Ifrah Sajjad (2022), The Effect of Supply Chain Agility and Lean Practices on Operational Performance: A resource-based view and dynamic capabilities perspective, The TQM Journal, Vol. 34, Iss: 5, pp. 1273-1297 (Q2 Journal)
- Zia-ur-Rehman, Mhuammad Hashim, <u>Hakeem-Ur-Rehman</u>, Shahzad Iqbal, Sajjad Baig, Yusra Khalid and Ayesha Khan (2022), Enablers and Barriers for adoption of Lean System: A Mix Method Approach, International Journal of Productivity and Quality Management, Vol. 35, No. 2, pp 220–240. (Q2 Journal)
- <u>Hakeem-Ur-Rehman</u>, Ayyaz Ahmad, Zarak Ali, Sajjad Baig, Umair Manzoor (2021), Optimization of Aggregate Production Planning Problems with and without Productivity Loss using Python Pulp Package, Management and Production Engineering Review, Vol. 12, Iss: 4, pp. 38-44. (Q2 Journal)
- Raza Rafique, Mohsin Nasir Jat, <u>Hakeem-Ur-Rehman</u>, and Muhammad Adnan Zahid Chudhery (2021), Bioenergy Supply Chain Optimization for Addressing Energy Deficiency: A Dynamic Model for Large-scale Network Designs, Journal of Cleaner Production, Vol. 318, 128495. (Q1 Journal - IF = 9.297))
- 9. Muhammad Adnan Zahid Chudhery, Sarah Safdar, Jiazhen Huo, <u>Hakeem-Ur-Rehman</u>, Raza Rafique (2021), Proposing and Empirically Investigating a Mobile-based Outpatient Healthcare Service Delivery Framework using Stimulus-Organism-Response Theory, IEEE Transactions on Engineering Management, DOI: 10.1109/TEM.2021.3081571 (Q1 Journal IF = 2.784))

- <u>Hakeem-Ur-Rehman</u>, Guohua Wan, Yang Zhan (2021), Multi-Level Multi-Stage Lot-sizing and Scheduling in the Flexible Flow Shop with Demand Information Updating, International Transactions in Operational Research, Vol. 28, Iss: 4, pp. 2191-2217. (Q1 Journal – IF = 2.987)
- Azmat Ullah, Muhammad Ayat, <u>Hakeem-Ur-Rehman</u>, Lochan Batala (2021), Optimal Preventive Maintenance Level for a Repairable Product under Warranty Subjects to Multi-modes Failure Process, International Journal of Quality & Reliability Management, Vol. 38, Iss: 5, pp. 1193-1214. (Q2 Journal)
- Fiza Amjad, Waseem Abbas, Muhammad Zia-Ur-Rehman, Sajjad Baig, Muhammad Hashim, Ayesha Khan, <u>Hakeem-Ur-Rehman</u>, (2021), Effect of Green Human Resource Management Practices on Organization Sustainability: Mediating Role of Environmental and Employee's Performance, Environmental Science and Pollution Research Vol. 28, Iss: 22, pp. 28191-28206. (Q2 Journal IF = 3.056)
- Muhammad Nazam, Muhammad Hashim, Sajjad Baig, Muhammad Abrar, <u>Hakeem-Ur-Rehman</u>, Muhammad Nazim and Ali Raza (2020), Categorizing the Barriers in Adopting Sustainable Supply Chain Initiatives: A Way-forward towards Business Excellence, Cogent Business & Management, Vol.7, Iss: 1. (Q2 Journal)
- <u>Hakeem-Ur-Rehman</u>, Guohua Wan, Azmat Ullah, Badiea Shaukat (2019), Individual and combination methods to forecasting hierarchical time series under correlated data set: An empirical study, Journal of Management Analytics, Vol.6, Iss: 3, pp. 231–249. (Q1 Journal)

Submitted Papers:

- 1. Maryam Bashir, <u>Hakeem-Ur-Rehman</u>, Muhammad Adnan Zahid Chudhery, Raza Rafique and Umair Manzoor (2022), Integration of Lean and Discrete Event Simulation for Productivity Improvement in Garment Production Line. (Journal of Quality Technology (Under Review))
- 2. Junaid Ahmed, <u>Hakeem-Ur-Rehman</u>, and Sajjad Ahmad Baig (2022), Opportunities and Challendes for Transformation of Traditional Quality to Quality 4.0. (The TQM Journal (Under Review))

Working Papers:

1. <u>Hakeem-Ur-Rehman</u>, Guohua Wan, Yang Zhan (2022), Integrated Production Planning and Scheduling in the Multi-Stage Production System with Dynamic Forecast Updates. (Target: International Journal of Production Research, IF: 2.623)

CONFERENCE PROCEEDINGS

- Umair Manzoor, Sajjad Ahmad Baig, Abdul Sami, <u>Hakeem-Ur-Rehman</u>, & Muhammad Nazam (2021), Evaluating the Impact of Lean Practices and Supply Chain Management Practices on Firm Performance-An Empirical Evidence from Manufacturing Industries, Asia Proceedings of Social Sciences, Vol. 7, No. 1, 57-59.
- 2. Shahzada Zaman Khan, Muhammad Azhar Ashfaq, Muhammad Usman Awan, <u>Hakeem-Ur-Rehman</u>, Ayesha Kamal, N T X Hoa and Muhammad Shafiq, *Investigating Supply chain issues in the food processing industry*, 12th International Seminar on Industrial Engineering and Management (12th ISIEM), held on March 17 20, 2020 in Batu-Malang, Indonesia.

CONFERENCE & SEMINAR PRESENTATIONS

- <u>Hakeem-Ur-Rehman (Guest Speaker)</u>, Talk Title: Big Data Analytics using Python, Doctoral Spring School 2020, Association of Media & Communication Academic Professionals, Venue: Institute of Quality & Technology Management, University of the Punjab, Lahore, Pakistan, dated: Feb. 28 -March 8, 2020.
- 2. <u>Hakeem-Ur-Rehman</u>, Guohua Wan, and Yang Zhan, Integrated Production Planning and Scheduling in the Multistage Production System with Dynamic Forecast Updates, INFORMS Annual Meeting, 2018, Phoenix, Arizona, United States of America (USA).
- 3. <u>Hakeem-Ur-Rehman</u>, Guohua Wan A Hybrid Approach for Hierarchical Time Series Forecasting, POMS, 28th Annual Conference, 2017, Seattle, Washington, United States of America (USA).
- 4. Muhammad Adnan Zahid Chudhery, Sarah Safdar, Jiazhen Huo, <u>Hakeem-Ur-Rehman</u>, Raza Rafique Framework to Reduce Outpatient's Flow from Territory-Tier Hospitals and to Amplify Community Health Center Resource Utilization: Proposing and Investigating the Acceptance from Outpatients' Perspective, POMS International Conference in China (Tianjin University), 2019.

BOOK

 Linear Programming: Theory & Applications - Use of Excel Solver & Python PuLP (2021), <u>Hakeem-Ur-Rehman</u>, Sajjad Baig, Raza Rafique, Published by: Department of Press & Publication, University of the Punjab, Lahore, Pakistan, ISSBN No. 978 - 969 - 9325 - 62 - 6.

PROFESSIONAL ACTIVITIES

- Reviewer for International Journal of Production Research (IJPR)
- Reviewer for IEEE Engineering Management
- Reviewer for IEEE ACCESS

INTERNATIONAL CERTIFICATIONS

• Certified Lean Six Sigma (Master Black Belt), Exemplar Global (USA), 2021

- Certified Six Sigma (Black Belt), SQII (Singapore), 2012
- Lead Auditor ISO 9001 (Quality Management System), IRCA (UK)

PROFESSIONAL TRAINING / COURSES / WORKSHOPS

- "Achieving Excellence through Value Stream Mapping" (Nov 15-17, 2012), National Productivity Organization (NPO), Ministry of Industries, Pakistan with collaboration Asian Productivity Organization, Japan.
- "Industrial Manufacturing Innovation: Production Excellence through Japanese Way" (Dec 13-15, 2012), National Productivity Organization (NPO), Ministry of Industries, Pakistan with collaboration Asian Productivity Organization, Japan.
- "Computer-Aided Project Management Using Oracle Primavera P6" (April 25-27, 2011) at National Institute of Design & Analysis, Lahore, Pakistan.
- *"Faculty Orientation Program"* (July 5-7, 2011), Institute of Administrative Sciences (IAS), University of the Punjab, Lahore, Pakistan

AWARDS & ACHIEVEMENTS

- Member Advisor Board:
 - Pakistan Society of Industrial Engineering
- Scholarship and Travel Grants:
 - International Travel Grant (\$3200), ACEM, Shanghai Jiao Tong University, Shanghai, China, for INFORMS 2018 Annual Meeting, Phoenix, Arizona, USA (*Nov, 2018*) & for POM 2017-28th Annual Conference, Seattle, Washington, USA (*May, 2017*).
 - Received fully funded scholarship from China Scholarship Council (CSC), Govt. of China, for the Ph.D. program (2013).

• International Conferences:

- Member Organization Committee of 2nd & 3rd International Conferences on Assessing Quality in Higher Education, *http://www.icaqhe.org*, held on *Dec 1-3, 2008 & Dec 6-8, 2010* at Lahore, Pakistan. Sponsored by PU Lahore, HEC Pakistan, IQTM, PU, Lahore & UMT, Lahore.

• Curriculum Development and Course Revision:

- Member, Curriculum Development Committee (IQTM, P.U., Lahore, Pakistan) for
 - $\ast\,$ MS Industrial Engineering & Management Program
 - * M.Sc. Quality & Performance Management Program
- Member, Course Revision Committee (IQTM, P.U., Lahore) for B.Sc. Industrial Engineering and Management Program
- Best Teacher Award:
 - IQTM, University of the Punjab, Lahore, Pakistan (2009)

SKILLS

- Managerial Skills:
 - Strong Communication skills
 - Presentation and interpersonal skills
- Analytical Skills:
 - Competent to develop optimum solution algorithms for complex real-world systems.
 - Competent to implement Lean Six Sigma tools & techniques for quality & productivity improvement.
 - Capable of collecting and analysis the data for decision making and statistical conclusions.
- Computer Skills:
 - Optimization & Simulation Software: OPL CPLEX, Excel Solver, and Simio
 - Data Analysis Tools Software: Python, R-Language, Minitab, SPSS
 - Project Management Software: Primavera (P6) & MS-Project
 - Competent to use LaTex & Citation Manager: Mendeley

MEMBER

- Institute of Industrial & Systems Engineers (IISE), USA
- Production & Operations Management Society (POMS), USA
- Institute of Operations Research and Management Science (INFORMS), USA
- Pakistan Society of Industrial Engineering

COUNTRY VISITED

• China, Srilanka, United Arab Emirates (UAE), United States of America (USA)