

DR HASSAN RANA SI(M)

PhD(EM), MS(EM), BE(Ae), LSC, CMILT(UK)

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Dr. Hassan Rana holds a Doctorate in Engineering Management, specializing in Business Process Management, Optimization, and Reengineering. An Aerospace Engineer by profession, he brings extensive experience in maintenance, supply chain, and logistics management within the aviation sector, having served in diverse leadership roles across all maintenance and logistics echelons. He currently works at Fauji Cereals as Manager Engineering, where he leads engineering operations, infrastructure management, and process optimization initiatives. His academic and professional foundation equips him with advanced analytical, operational, and managerial capabilities to systematically analyze, optimize, and redesign business processes for enhanced operational performance and organizational efficiency, supported by broad experience in product documentation, instructional design, and training manual development that drives process standardization, workforce development, and continuous improvement across teams and departments.

Additionally, as a Certified Auditor and Assessor in multiple ISO standards, he possesses deep expertise in management system auditing, documentation, compliance, and continuous improvement aligned with international standards. He is passionate about bridging technical excellence with strategic management, enabling organizations to achieve operational excellence, governance maturity, and sustainable growth.

PROFESSIONAL EXPERIENCE

Head of Engineering Department ⓘ April 2023 ~

Fauji Cereals (Fauji Foods), Rawalpindi

Fauji Cereals (FC) is one of the pioneer commercial ventures of Fauji Foundation operating under the umbrella of Fauji Foods.

- Leading and managing engineering team, assigning tasks, setting goals, and ensuring the team works efficiently and effectively.
- Overseeing engineering projects from conception to completion, including planning, budgeting, and ensuring project objectives and deadlines.
- Managing resources such as personnel, equipment, and budgets to optimize the engineering department's performance.
- Providing technical guidance and support to engineering team, including troubleshooting and problem-solving when issues arise.
- Identifying areas for process improvement and implementing best practices to enhance engineering department efficiency & effectiveness.

Head of Quality, Conformance and Documentation ⓘ 2021-23

Digital Automation Technology (DAT), Islamabad

DAT is a multi-national partner firm of National Instruments and specializes in the development and integration of high-end military equipment.

- Develop, document, and oversee control systems to prevent/deal with violations and/or non-compliance of guidelines, regulations, and policies.
- Documentation management of projects being executed by DAT.



CORE COMPETENCIES

- Business Process Evaluation, Optimization and Documentation
- Engineering Design and Process Evaluation, Re-engineering, and Documentation
- Procedure/ SOP Design and Evaluation
- Problem Solving & Decision Making
- Project Management

EDUCATION

Ph.D. (Engg Management)

ⓘ 2021 - 24

Sir Syed CASE Institute of Technology, Islamabad

M.S. (Engg Management)

ⓘ 2008 - 10

University of Engineering and Technology, Taxila

B.E. (Aerospace Engineering)

ⓘ 1989 - 92

NED University of Engineering and Technology, Karachi

COURSES

- Certificate courses from IBA, Kci
 - Financial Management
 - Log and Material Management
 - Human Resource Management
- Supply Chain Management Diploma
- Lead Auditor Course: ISO 50001:2018 and ISO 9001:2000

Director 'Planning & Development' and 'Internal Audit' ⓘ 2020-21

[Institute of Space Technology \(IST\), Islamabad](#)

IST is a federally chartered university that aims at providing outstanding quality education to diverse groups of national and international students in the field of Aeronautics and Astronautics.

- Responsible for conceptualizing, formulation, appraisal, approval, planning, implementation, monitoring, evaluation, revision, closing and impact analysis of all the development projects.
- Responsible for monitoring of internal control system of IST to identify the problem areas and suggest remedial measures for correction and future avoidance.

Director 'Budget'

ⓘ 2016-19

[GHQ, EME Directorate, Rawalpindi](#)

GHQ EME Directorate is responsible for formulation, controlling and implementation of Army-wide equipment induction and maintenance policies including budgeting and finance.

- Responsible for maintenance, repair, and logistics management of Army Aviation.
- Responsible for preparation of budget estimates after budget and disbursement of allocated funds for Corps of Electrical and Mechanical Engineers.

Deputy Commandant

ⓘ 2014-16

[503 Aviation Base Workshop, Dhamial](#)

503 Aviation Base Workshop EME is a unique comprehensive helicopter and aircraft overhaul facility which is certified by Civil Aviation Authority (CAA) of Pakistan in addition to the certification under international quality management standards ISO 9001:2000.

- Responsible for production management and training of the workshop.
- Also performed duties of ISO Management Representative (MR) of the workshop

eARMS Domain Expert (Aviation Technical)

ⓘ 2013-19

[GHQ, C4I Directorate, Rawalpindi](#)

GHQ C4I Directorate is responsible for formulation, controlling and implementation 'command, control, communications, computers, and intelligence' system and policies including development and deployment of Army-wide ERP - eARMS (electronic Army Resource Planning System) based on Oracle eBusiness Suite.

- Responsible for envisaging, development, deployment, and configuration of Army Aviation Maintenance System on eARMS.

Responsible for development and deployment of 'eARMS Supply Chain Module' in Army Aviation Spares Depots.

- Assessor Course: ISO/IES 17020:2012, ISO/IES 17065:2012, ISO/IES 17067:2012 and Global GAP
- R12 Oracle Complex Maintenance Repair and Overhaul Fundamentals
- Quality Assurance Course
- Ground Safety Officer Course

Assistant Director EME

2011-14

[Fleet Management Branch, HQ Army Aviation, Rawalpindi](#)

Fleet Management Branch at HQ Army Aviation Command is responsible for formulation, controlling and implementation of field level Aviation equipment maintenance and logistics policies.

- Responsible for formulation, controlling and implementation of field level Aviation equipment maintenance and logistics policies.

Field Maintenance Officer

1992-2011

[Army Aviation, Dhamial and Multan](#)

- Responsible for maintenance, repair and logistics management of Army Aviation Fleet.

PUBLICATIONS / CONFERENCE PAPERS

- Usman Ghani, Shafqat Malik, Hassan S. Rana, Nadeem Ehsan, and Abdussalam Akhtar, "Importance of Emotional Intelligence in Technical Outfit of Military Establishment," in Asia Pacific Business Innovation and Technology Management Society, Cebu, Philippines, 2010.
- Uzma Hassan, Hassan S. Rana. Factors causing failure in final examination among the medical students. Rawal Medical Journal. 2018; 43(4):751-753.
- Uzma Hassan, Hassan S. Rana, Rameen Hassan. Factors affecting Scheduling of Elective surgeries in a Private Hospital, Islamabad. Rawal Medical Journal. 2021; 46(4): 940-943.
- Hassan S. Rana, Muhammad Umer, Uzma Hassan, Umer Asghar. A novel multi-criteria decision-making approach for prioritization of Elective Surgeries through formulation of Weighted MeNTS Scoring System. Heliyon. Aug 2022, 8(8). doi: 10.1016/j.heliyon.2022.e10339.
- Hassan S. Rana, Muhammad Umer, Uzma Hassan, Faheem Qaiser Jamal, Umer Asgher. The Application of Fuzzy Delphi Method for Evaluating Biopsychosocial factors for Prioritization of Patients. Journal IISE Transactions on Health Care System Engineering. Acknowledgment received on 22 August 2022.
- Hassan S. Rana, Muhammad Umer, Uzma Hassan, Fabián Silva-Aravena, Umer Asgher, Nadeem Ehsan. The Application of Fuzzy TOPSIS for prioritization of patients on Elective surgeries waiting list. A Novel Multi-Criteria Decision- Making Approach. Journal Decision making: Applications in Management and Engineering (under review- 9 Dec 2022).
- Hassan. S. Rana, Muhammad Umer, Uzma Hassan, Umer Asgher, Faheem Q. Jamal, Afshan Naseem, and Nadeem Ehsan, 'The Application of Fuzzy Delphi Method for Evaluating Biopsychosocial Factors for Prioritization of Patients', IISE Transactions on Healthcare Systems Engineering, vol. 13, no. 2, May 2023, doi: 10.1080/24725579. 2023.2215247
- Uzma Hassan, Hassan S. Rana, Tamkeen Nishat Jaffry, Hina Shan, Raima Asif, Rubab Zulfiqar. Dengue fever perception among undergraduate students at a Public Sector University, Rawalpindi. Pakistan Journal of Public Health; June 2023;13(2):57-61; doi: 10.32413/pjph.v13i2.1204
- Uzma Hassan, Hassan S. Rana, Tamkeen Nishat Jaffry, Hina Shan, Raima Asif, Rubab Zulfiqar. Covid 19 Pandemic: Impact on the lifestyle and mental health of undergraduate students at a Public Sector University, Rawalpindi. Pakistan Journal of Public Health; Dec 2023; Vol. 13(4); 180-185; doi: 10.32413/pjph.v13i4.1202.

TEACHING EXPERIENCE

Supply Chain Management (3 Credit)

An introductory course about Supply Chain management concepts with a link between core fundamentals of Logistics & commerce, and domestic & foreign goods supply, in depth understanding of supply chain operations and an ability to implement up to date technologies to help adapt to ever demanding global, environmental, and operational challenge.

Sir Syed CASE Institute of Technology, Islamabad  Summer 2022 MS(PM) & MS(EM)
SZABIST, Islamabad  Fall 2016 MBA

Operations Research (3 Credit)

An introductory course that provides the student with the concepts, methods and tools for the application of Operation Research and allows students to model real-world problems by using mathematics, statistics, and computers.

SZABIST, Islamabad  Spring 2025 MS(PM)
SZABIST, Islamabad  Spring 2020 MS(PM)
SZABIST, Islamabad  Fall 2019 MS(PM)
SZABIST, Islamabad  Spring 2018 MS(PM)

Quantitative Analysis for Decision Making (3 Credit)

An introductory course about Supply Chain management concepts with a link between core fundamentals of Logistics & commerce, and domestic & foreign goods supply, in depth understanding of supply chain operations and an ability to implement up to date technologies to help adapt to ever demanding global, environmental, and operational challenge.

SZABIST, Islamabad  Spring 2016 MBA

Operations and Supply Chain Management (3 Credit)

A course that provides in-depth understanding of supply chain operations and an ability to implement up to date technologies to help adapt to ever demanding global, environmental, and operational challenges.

SZABIST, Islamabad  Fall 2015 EMBA

Strategic Procurement in Supply Chain Management (3 Credit)

An introductory course about the fundamental aspects of the supply chain environment, including enterprise resource planning systems and requirement systems.

SZABIST, Islamabad  Fall 2015 MBA

WORKSHOPS

Seminar on Self-Motivated Approach towards Research Trends (SMART)  2017

CDA Training Academy in collaboration with Centre for Advance Studies in Engineering, Islamabad

Partial Least Squares Structural Equation Modelling (PLS-SEM) using SmartPLS 3.0  2017

Centre for Advance Studies in Engineering, Islamabad

Conducting Qualitative Data Analysis and Auto Literature Review using NVIVO  2017

Institute of Space Technology, Islamabad

Seminar on Analysis of Advance Qualitative Research Techniques using NVIVO  2016

Institute of Space Technology, Islamabad