

Dr. Muhammad Wasif, PMP

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Personal Details

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Career Objective

To pursue high quality research in the field of Industrial Management and Engineering, to deliver the results to the local and global industry, and to equip those with the new innovations and productive solutions, and to impart this knowledge to the new generation.

Awards and Accomplishments

- PhD Scholarship through Faculty Development Programme (FDP) of NED UET to pursue higher education in Concordia University, Montreal (Quebec), Canada
- Teaching Excellence Awards by NED Alumni Association of Southern California (NEDAASC)
- Best Research Publication Award by NED Alumni Association of Southern California (NEDAASC)

Career & Experience

2016-to date **NED University of Engineering and Technology, Karachi.**
Deputy Director/MR Quality Enhancement Cell and Quality Management Cell

- IRCA Registered Lead Auditor for ISO 9001:2015 Standards
- Managing Institutional Performance Evaluation (HEC-IPE) and Master/PhD Programme Evaluations activities
- Managing Compliance with the requirements of HEC/PEC
- Performing Self Evaluation of IPE and Master/PhD Programme Review as Auditor within or outside university
- Conducting PEC-Outcome based Education (OBE) Internal Audits and Reviews within the NED University.
- Conducting Trainings of Quality Assurance in higher education, ISO 9000:2015, Academic procedures and activities to the Chairpersons, Head of the Departments, Faculty and Employees

- Managing Yearly Progress Report (YPR) of QEC
- Developing Quality System Procedures (QSPs) and Standard Operating Procedures (SOPs) of QMS.
- Managing Board of Review Meetings (University Level)
- Collecting and Analyzing University Level KPIs
- Collecting and Analysis students' feedback
- Performing analysis and research on University Level Data and Information, and presenting it in National or International Conferences

2007 – to date
Asst. Professor

NED University of Engineering and Technology, Karachi.
 Department of Industrial and Manufacturing Engineering.

- Teaching PhD, Masters and Bachelors level courses
- HEC Approved Supervisor
- Consultant for PEC – OBE Accreditation
- Member, NED University Admissions Committee
- Member, National Curriculum and Revision Committee of BE/MS/M.Engg. in Industrial and Manufacturing Engineering of Higher Education Commission of Pakistan (HEC)
- Member, National Curriculum and Revision Committee of BS/MS in Supply Chain and Logistics of Higher Education Commission of Pakistan (HEC)
- Corporate trainings: Project Management, CAD/CAM, Operations and Production Management, Lean Systems
- Consulting Industrial Projects

2006 – 2007
Lecturer

NED University of Engineering and Technology, Karachi.
 Department of Industrial and Manufacturing Engineering.

- Taught Undergraduate Courses.
- Lab Facilitator for Computer Numeric Control (CNC) machines.
- Technical Coordinator of Product Development Center (PDC) to provide rapid prototyping, 3D scanning, non-traditional and CAD/CAM services to the local industry

2004 – 2005
Production Executive & Trainee Engineer

Hinopak Motors Limited (Chassis Assembly Plant) Karachi.
 Performed several productions, operations and project management activities as a key team member (**Production Executive**) of the Production Department;

Qualification

2017	IRCA Registers Lead Auditor for the ISO 9001:2015 Standards
2016 PMP	Certified Project Management Professional (PMP) from PMI.
2009 – 2013	Concordia University, Montreal (Canada).
Ph.D.	Doctorate of Philosophy with specialization in Computer-aided Design and Manufacturing (Mechanical Engineering).
2005 – 2007	NED University of Engineering and Technology, Karachi.
M.Engg.	Masters in Engineering in Industrial and Manufacturing Engineering.
2000 – 2003	NED University of Engineering and Technology, Karachi.
B.E.	Bachelors in Engineering in the field of Mechanical Engineering.

Research and Industrial Projects

Research Supervisor of following research projects

- Improving performance of supply chain of Agricultural Products (ICI Pakistan, in-progress 2018)
- Implementing Six Sigma in Gul Ahmed Textile finishing processes (in progress **Gul Ahmed**, 2018)
- Gap analysis between best practices in Project Management and practices in Pakistan (**Research**, 2018)
- Improving productivity through lean system (**ISL**, 2018)
- Line balancing and implementation of lean in SSGC V-4 Meter Plant (**SSGC**, 2016).
- Implementation of Quality Management system in auto part vendors of OEM (**Ali Brothers Forging**, 2016).
- Improvement of Maintenance Management System of Pakistan Petroleum Limited (PPL) Exploration Site (**PPL**, 2016).
- Modeling and simulation of springback in high tensile strength metals. (**OEM**, 2016)
- Optimization of milling parameters for various types of fibers reinforced composite materials (FRP) (**Aerospace Research**, 2015).
- Optimal parameters for the drilling of carbon fiber reinforced (FRP) composite material (**Aerospace Research**, 2015).
- Influence & Impact of Vendor Performance System for Automobile Supply Chain Industry. (**OEM**, 2014).
- Optimization of parameters for the plasma coating of aerospace alloys (**Aerospace Research**, 2014.).
- Study the behavior of Spring-back of high tensile Hot Rolled Steel. (**Pak-Suzuki Motors Limited**, 2014).

- Productivity increase by Optimization of Investment Casting Process. (**Precision Engineering Complex - PEC, PIA, 2014**).
- Processes /parameter optimization for deep-hole drilling using coated/un-coated HSS drills on three different materials such as MS, AL Alloy (AA-2024) & Titanium. (**Aerospace Research, 2013**).

Research Interests

- Optimization and enhancement of productivity in production and service industry
- Modeling and simulation of production and service facilities
- Project management, processes and project governance
- Risk Management System
- Quality Management in higher education institutes
- Optimization of tool design and machining parameters
- Computer-aided design (CAD) and computer-aided manufacturing (CAM)
- Computer-aided operations management
- Implementation of Industry 4.0

Teaching and Trainings

Taught and teaching following graduate, undergraduate and corporate level courses;

- PMP Examination Preparation in Center of Professional Excellence of NED
- Operations and Production Management (MBA course in IBA-Karachi)
- Project Management (M.Engg./MEM Course and MBA in IBA-Karachi)
- ISO 9001:2015 Training to faculty members and employees
- Quality Assurance in Higher Education Trainings to Chairpersons and faculty
- Optimization and Forecasting Techniques (PhD Course)
- Advanced Optimization using MATLAB (PhD Course)
- Computer-aided Design using CATA, Pro/E and AutoCAD (Undergraduate course)
- Production Management in Automobile Industries (Hino-Pak Motor Ltd.- 2014)

Publications

- Irshad Ullah, M. Tufail, **M. Wasif**, “*Optimal parameters selection for the drilling of fiber-reinforced composites*”, Article accepted in Mehran University Research Journal of Engineering and Technology (ESCI - Clarivate Analytics), 2018.
- Z.C. Chen, **M. Wasif**, “*A Generic and Theoretical Approach to Programming and Post-Processing for Hypoid Gear Machining on Multi-Axis CNC Face-Milling Machines*”, International Journal of Advanced Manufacturing Technology, Vol. 81, Issue 1, page 135-148, Springer, 2015. (DOI 10.1007/s00170-015-7171-6).

- **M. Wasif**, Z. C. Chen, “*An accurate approach to determine the cutting system for the face milling of hypoid gears*”, International Journal of Advanced Manufacturing Technology, Vol. 84, Issue 9-12, page 1873-1888, Springer, 2015. (DOI 10.1007/s00170-015-7823-6).
- **M. Wasif**, Z. C. Chen, S. M. Hasan, “*Determination of Cutter-Head Geometry for the Face-Milling of Hypoid Gears*”, International Journal of Advanced Manufacturing Technology, Vol. 86, Issue 9, page 3081-3090, Springer, 2016. (DOI 10.1007/s00170-016-8430-x).
- M. Rababah, M. Wasif, A. Ahmed, S. A. Iqbal, “*Accurate Machine-Settings for the Face-Milling of Hypoid Gears*”, International Review of Mechanical Engineering, Vol. 11, No. 12, page 1-12, Praise Worthy Prize, 2018. (DOI 10.15866/ireme.v11i12.14194)
- M. Aslam Bhutto, Asif. A. Shaikh, **M. Wasif**,” Impact of Quality Enhancement Practices”, 1st International Conference on Quality Assurance at Higher Education, December 18-19, 2017, Khyber Medical University, Hayatabad Peshawar.
- M. Aslam Bhutto, Asif. A. Shaikh, **M. Wasif**, “Improving Quality of the Academic Programs in Universities/HEIs through Self-Assessment Mechanism” Conference on Quality Assurance QCON '17, March 2017, LUMHS, Jamshoro.
- **M. Wasif**, M. Rababah, S. M. Hasan, S. A. Iqbal, “*Determination of Accurate Machine-Settings for the Face-Milling of Hypoid Gear*”, 5th International Mechanical Engineering Congress, 9-10th May, 2015, Karachi, Pakistan.
- S. M. Hasan, J. Gao, **M. Wasif** and S. A. Iqbal, “*An Integrated Decision-Making Framework for Automotive Product Development with the Supply Chain*”, 8th International Digital Enterprise Technology (DET) Conference, Stuttgart – Germany, 2014.
- S. M. Hasan, **M. Wasif** and S.A. Iqbal, “*A Collaborative framework for Product Development in Extended Enterprise*”, International Conference on Emerging Trends in Engineering and Technology (ICETET'2013), Dec. 7-8, Patong Beach, Phuket (Thailand), 2013.
- **M. Wasif**, Z. C. Chen, S. M. Hasan, “*An Accurate Cutter-head Geometry for the CNC Face-milling of Hypoid Gears*”, International Conference on Emerging Trends in Engineering and Technology (ICETET'2013), Dec. 7-8, Patong Beach, Phuket (Thailand), 2013.
- **M. Wasif**, Z. C. Chen, “*Cutter radius and blade angle selection model for the high speed face milling of hypoid gear*”, International conference on virtual machining process technology (VMPT 2012), May 28 to June 1, Montreal, 2012.
- **M. Wasif**, Z. C. Chen, “*Mathematical model of the pressure and spiral angles on hypoid gear teeth machined with industrial blade*”, International conference on virtual machining process technology (VMPT 2012), May 28 to June 1, Montreal, 2012.

Languages

- Fluency in English and Urdu.
- Basic Knowledge of French and Arabic.

Memberships and Affiliations

- **Member NCRC-HEC** of BE/MS in Industrial and Manufacturing Engineering
- **Member NCRC-HEC** of BS/MS in Supply Chain and Logistics
- **Expert member** in Board of Studies of **Pak-Swiss Training Center**, Karachi.
- **Expert member** in Board of Studies of Mechanical Engineering Department, **DHA Suffa University**, Karachi.
- Reviewer Journal of Mechanical Science and Technology (**JMST**) – Springer.
- Member and reviewer of research articles and conferences arranged by Universal Researchers in Engineering (**URENG**).
- Member and reviewer of research articles and conferences arranged International Institute of Engineers (**IIE**).
- Reviewer of International Mechanical Engineering Congress of Institute of Engineers Pakistan (**IEP**).
- Pakistan Engineering Council (**PEC**).
- **Member** sub-affiliation Committee, **Karachi Tool, Dies and Molds Center (KTDMC)**, Karachi.