



Dr. Mohd Shadab Khan
Associate Professor, Department of Mechanical Engineering, Faculty of Engineering,
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Hyperlinks of [Mohd Shadab Khan - Google Scholar](#)

PROFILE

Dr. Mohd Shadab Khan is currently serving as an Associate Professor in the Department of Mechanical Engineering, a position he has held since August 2011. His research expertise lies in Wear & Tribology and in Industry Automation, with a particular focus on the development of Abrasive Wear. He also has significant experience in the computational analysis of Industry 4.0, as well as in the study of six sigma and TQM. Dr. Khan has authored over 25 articles published in peer reviewed journals and conferences. He holds a Ph.D. in Abrasive Wear from Integral University, Lucknow, India, an M.Tech. in Production & Industrial Engineering from Integral University, Lucknow, India, and a B.Tech. in Mechanical Engineering from MIT Moradabad, Moradabad , India.

RESEARCH INTEREST:

- Effect of orientation on wear and tribology.
- Computational analysis of wear.
- Sustainability accounting and reporting in the industry 4.0.
- Role of Industry 4.0 in Technologies.

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Number of publications in SCI indexed journals : 03
- Number of publications in Scopus indexed journals : 03
- Number of publications in Non-Sci/Scopus but Peer Reviewed : 07
- Number of publications in International Conferences : 02
- Book Chapters : 02
- Presentation in international conferences : 02
- Citations : 332
- H index : 08
- I10 index : 03

PROFESSIONAL MEMBERSHIP:

- Life member of “Indian Society for Technical Education”.
- Life member of “Tribological Society of India”.
- Life member “Robotics Society, Integral University”.

COURSE TAUGHT:

Subjects Taught (B. Tech.)

- Strength of material
- Materials Science
- Basic Mechanical Engineering
- Measurement and Metrology
- Dynamics of Machine
- Non-Destructive Testing
- Non-Conventional Energy Resources

Subjects Taught (M. Tech.)

- Advance Materials Science
- Production Engg.
- Total Quality Management
- Production Operations Management
- Advanced Welding
- Advance Manufacturing Processes

Subjects Taught (Ph.D.)

- Tribology

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- Assistant Proctor, Integral University
- Program Coordinator- Ph.D., Department of Mechanical Engg.
- Course Coordinator- M. Tech. (Evening), Department of Mechanical Engg.
- In charge –Disciplinary Committee, Department of Mechanical Engg.
- O/C Library, Department of Mechanical Engineering.
- O/C Material Science and Testing Lab.

- O/C Measurement and Metrology Lab.
- O/C Advance P.G. Lab
- Appointed as an Observer (Examination) at UPTEC, Lucknow.
- Appointed as Judge for various technical events/ competitions.
- Various responsibilities during visit of NBA team for Accreditation.
- Various responsibilities during visit of NAAC team.
- Member of Proctorial Board (Core Group).

STUDENTS SUPERVISION

Dissertation Guided:

- Experimental study of Distortion in Butt Welds on Mild Steel and EN-8 Plates Having Different Thickness & Weld Cross-sections.
- Variation of Wear Rate with Different Orientation on Al-SiCp (6061).
- Quality Improvement in Manufacturing Industry Using Tools TQM & Lean Manufacturing System (Production Preparation Process & KANBAN).
- Effect of Applied Load on the Abrasive Wear Property Of Al6061 Using Abrasive Disc.
- Stress Analysis of Differential Housing Cover Manufactured By Pressure Die Casting Process.
- Effect of Load on Dry Abrasive Wear in Blades of Hand Hacksaw.
- Abrasive Wear Characteristics & Tribological Behavior of Graphite.
- Effect of Applied Load And Rotational Speed on the Abrasive Wear Behaviour of Al6063 Using Sanding Disc.
- Investigation of Erosive Wear on Polymer Coated Mild Steel Using Response Surface Methodology (RSM).
- Analysis of Abrasive Wear of 60Cu40Zn from 20N to 40N Using Matlab.

Projects Guided:

- Computer Aided Process Planning
- Study and Fabrication of Hover Craft
- Fabrication of Two Stroke LPG Based Motorcycle
- Mechanical Advantage Based on Pulley System
- Mechanical Advantage Based on Hydraulic System
- Fabrication Of Engine Running on Water As A Fuel
- Automatic Washer Dispenser
- Electromagnetic Propelled Wheel
- Solar Cutting Machine
- Solar Power Generation With No Storage
- Regenerative Braking System

Consultancy Projects:

- A consultancy project of Eveready Industries Ltd. was successfully completed during M. Tech dissertation.

Ph.D. Supervised:

- Factors effecting consistency and sustainability of small and medium enterprises supply shain.

Ph.D. currently under supervision:

- Craft and cluster industry improvement employing digital human modelling.
- Synthesis of nano based biolubricant through chemical modification of sunflower oil and evaluation of its tribological performance.

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- *Tiwari K. and Khan M.S., Sustainability accounting and reporting in the industry 4.0, "Journal of Cleaner Production", 258 (2020) 120783, ISSN 0959-6526, Elsevier. (SCI, cite score-7.32, impact factor-6.395, last 2-year impact factor-11.072).*
- *Tiwari K. and Khan M.S., An action research approach for measurement of sustainability in a multi-echelon supply chain: Evidences from Indian sea food supply chains, "Journal of Cleaner Production", 235 (2019) 225-244, ISSN 0959-6526, Elsevier. (SCI, cite score-7.32, impact factor-6.395, last 2-year impact factor-11.072).*

- *Tiwari K. and Khan M.S., Role of Industry 4.0 Technologies in Sustainability Accounting and Reporting-Research Opportunities in India and Other Emerging Economies, "Lecture Notes in Mechanical Engineering", ISSN 2195-4356, Springer-2021 (Scopus).*
- *Tiwari K., Khan M.S. and Bharti P.K., Sustainability Accounting and Reporting for Supply Chains in India-State-of-the-Art and Research Challenges, "IOP Conf. Series: Materials Science and Engineering", 404 (2018) 012022, ISSN 1757-899X, IOP Publishing. (Scopus).*
- *Wear Analysis Of Orientation And Applied Load On Polypropylene: A Review, International Journal of Technical Research and Applications, Volume 05 Issue:03 , Pages 69-74 | Jun-2017.*
- *Study and Analysis of Abrasive Wear Properties of 60Cu40Zn, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -0056 Volume: 03 Issue: 04 | Apr-2016 www.irjet.net p-ISSN: 2395-0072.*
- *A Review on investigation of erosive wear on polymer coated mild steel using response surface technique , International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -0056 Volume: 03 Issue: 04 | Apr-2016 www.irjet.net p-ISSN: 2395-0072.*
- *A Review On Abrasive Wear Behaviour Of Al6061 And Selection Of Material And Technology For Forming Layer Resistant To Abrasive Wear, International Journal of Engineering Trends and Applications (IJETA),Volume 3,Issue 2 ,Pages 47-52 Publisher International Journal of Engineering Trends and Applications (IJETA) ISSN: 2393 – 9516 , 2016.*
- *Wear and Change in Teeth Height in High Carbon Steel Blades of Hand Hacksaw at different Loads, International Journal of Modern Engineering Research (IJMER), Volume 5, Issue 7, Pages 20-26, Publisher International Journal of Modern Engineering Research (IJMER), ISSN: 2249 – 664, 2015.*
- *Effect of Load on Dry Abrasive Wear in Blades of Hand Hacksaw , International Journal of Engineering Research and Applications ,Volume 5 , Issue 7 , 41-45 , ISSN: 2248-9622, 2015.*
- *Wind Energy: An Alternate Energy Source In Future, International Journal of Technical Research and Applications, Volume 3, Issue 4, Pages 166 – 168, 2015.*
- *Stress Analysis of Differential Housing Cover Manufactured By Pressure Die Casting Process , International Journal of Mechanical Engineering and Technology (IJMET) ,Volume 6, Issue 8 , Pages 70-77 ,2015 Publisher IAEME Publication.*

- *Statistical Analysis for the Abrasive Wear Behavior of Al6061* published in Journal of Minerals and Materials Characterization and Engineering, Scientific Research, USA. **2014, 2, 292-299**. Published Online July 2014 in SciRes. <http://dx.doi.org/10.4236/jmmce.2014.24034>.
- *Effect of Orientation And Applied Load on Abrasive Wear Property of Brass 60:40* in Journal of Minerals And Materials Characterization And Engineering, 2014, 2, 49-53 Published Online January 2014.
- *Effect of Orientation and Applied Load Onabrasive Wear Property of Alumunium Alloy – Al6061 published in* International Journal of Mechanical Engineering & Technology (IJMET), Journal Impact Factor (2013): 5.7731.
- *Abrasive Wear- a Renewal Approach* published in International Journal of Engineering Research and Technology, Vol. 6, No. 3 of 2013 ISSN-0974-3154.
- *Abrasive Wear: A Renewable Approach* at World Congress on Frontiers of Mechanical, Aeronautical and Automobile Engineering (WCFMAAE – 2013) held at IIT Delhi (2013).
- *Quality Improvement in Manufacturing Industry Using Tools of T.Q.M* at International conference held at Navalnagar, Maharashtra (2009).

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BOOK CHAPTERS

- *A Systematic Review of Musculoskeletal Disorders and Health-Related Problems among the Craft Industry Workers* by Praveen Srivastava and Dr. M. S. Khan ISBN: 978-81-19746-57-6 , [DOI:10.5281/zenodo.10295445](https://doi.org/10.5281/zenodo.10295445).
 - *Impact of covid-19 on Higher Education Challenges and Oportunities. Book entitled “covid-19 & Emergency E-Learning: Consequences and Experiences”.* By Indu Upadhyay , Anshu Shukla and Anjulata Sing. Publication , Agra. ISBN – 978-93-81246-99-3. Pp 47-67.
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