

Prof. (Dr.) Kishan Pal Singh

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RELEVANT SUMMARY OF ACADEMIC/ADMINISTRATIVE LEADERSHIPS

- **Professor and Director**, Faculty of Engineering & Technology, Mangalayatan University Beswan Aligarh from Feb. 6, 2017, to be present.
- **Additional Director Admission** in Admission cell from Feb. 13, 2021 to August 2023. and increase two-fold admissions from previous three-year admissions in Mangalayatan University.
- **Founder Director** for Work Integrated Learning Program for Working Professionals in Engineering through **WILP** from October 2020, to be present.
- **Director (IQAC)** from July 2018 to January 2021. Our documents preparation results to obtain NAAC A+ grade to our university in year 2023.
- **Proctor and Anti-Ragging Nodal Officer** since March 2024, to be present.
- **Dean (Academics-Planning and Policy) & Head** of Mechanical Engineering Department, in Sunder deep Group of Institution Ghaziabad affiliated to AKTU Lucknow U.P., and Satya College of Engineering and Technology Palwal affiliated to MDU Rohtak Haryana.

EDUCATION

Doctor of Philosophy (Mechanical Engineering)

AKTU Lucknow (A State Govt. University), May 2019

Master of Technology (Thermal Engineering)

AMU Aligarh GP A: 66.70% (A Central Govt. University)

Bachelor of Engineering (Mechanical Engineering)

Dr. BRAU Agra GP A: 73.44% (A State Govt. University)

RSEARCH ARTICLES SUMMARY

(49 - Journal Research Papers; 6 - Communicated Papers; 9 - Book Chapters; and 35 – Int. National/National Conference papers)

KEY RSEARCH ARTICLE

- Kunal, K., Singh, K. P., & Khan, Mohd. Y. (2025) “Investigation and optimization of process parameters in the electrical discharge machining process for Inconel 660 using response surface methodology” Future Technology, May 2025| Volume 04 | Issue 02 | Pages 22-29, <https://doi.org/10.55670/fptl.futech.4.2.3> (A Scopus Journal)
- Gupta V. & Singh K. P., (2025) “Synergistic optimization of biodiesel production through waste eggshell-derived catalysts and machine learning integration for enhanced sustainability”, International Journal of Ambient Energy, 46:1, (A SCI Journals) <https://doi.org/10.1080/01430750.2024.2444356>
- Gupta V., & Singh K. P., (2023) “*Eco-friendly catalysts for biodiesel production: leveraging waste eggshells for sustainable solutions*” International Journal of Applied Engineering & Technology, ISSN: 2633-4828 Volume 5, Issue 2 (June-2023), pp. 205-211. (A Scopus Journal) [ijaet20v5-2-2023-26.pdf](https://doi.org/10.1080/01430750.2024.2444356)
- Singh, K. P., and Singh, O, (2018), “Performance evaluation of solar energy driven diffusion absorption refrigeration cycle using inorganic fluid pair” International Journal of Air-Conditioning and Refrigeration, Vol. 26, No. 4, pp. 1850031-1 to 1850031-15. (A Scopus Journal)

KEY BOOK CHAPTERS

- Jeelani M., Zafar, A., Muqeem M., Azrour M., Ahmad S., and Singh, K. P. (2025) “Wireless Sensor Networks and Communication Protocols” Integrating Intelligent Control Systems with Sensor Technologies, Chapter 7, IGI Global Scientific Publishing @2025, pp. 189-237. (A Scopus Book Chapter).

- Singh K. P., (2024) “*Pressure losses in the three fluid absorption cycle components, piping, and its impacts on cycle Performance*” Proceedings of the 2024 1st International Conference on Sustainability and Technological Advancement in Engineering Domain | ©2024 IEEE | (Online ISBN 979-8-3503-9165-7/24), pp 1144-1153. (**A Scopus Book Chapter**).
- Kumar A., Singh, K.P., Wasim J., & Chaudhary M., (2024). “*Multiclassification of Malware using DLL*” 2024 International Conference on Emerging Technologies and Innovation for Sustainability (EmergIN) | ©2024 IEEE | (Online ISBN 979-8-3503-9126-8/24), pp 585-587., DOI: 10.1109/EMERGIN63207.2024.10961686. (**A Scopus Book Chapter**).
- Shweta, Singh, K.P. (2024). “*Impact of Castor Blended Biodiesel on Engine Power and Exhaust Emissions*” Sikarwar, B.S., Sharma, S.K. (eds) Scientific and Technological Advances in Materials for Energy Storage and Conversions. FLUTE 2023. Lecture Notes in Mechanical Engineering. Springer, Singapore. (Online ISBN 978-981-97-2481-9), (Print ISBN 978-981-97-2480-2), pp 225-233., https://doi.org/10.1007/978-981-97-2481-9_16 (**A Scopus Book Chapter**).
- Khan, M. M., Singh, K. P., & Khan, W. U. (2024). “Study the Effect of Route Penalty on FMS Considering Routing Flexibility.” Engineering Headway, vol. 11, Trans Tech Publications Ltd, 22 July 2024, pp. 45–54. Crossref, [doi:10.4028/p-q24uus](https://doi.org/10.4028/p-q24uus).

PUBLICATION OTHER THAN RESEARCH PAPERS

A. BOOKS AUTHORED/EDITED

- A text book has been published with the title “Core Java” with ISBN: 978-81-982509-2-6 First Published in 2025. OPUS Publishers and Distributors New Delhi - 110093 (**Authored**).
- A book has been published with the title “Optimization of Solarized Absorption System” with ISBN: 978-93-91870-11-9 First Published in 2024. D.P.S. Publishing house New Delhi - 110002 (**Authored**).
- Proceedings of Integration of Artificial Intelligence in Advancement of Science and Engineering ISBN No. 978-93-95305-72-3 (**Editor**).
- Proceedings of Exploring Innovative Research Methodologies in a Variety of Multidisciplinary Fields and their Prospective Future Impact (EIRMPFI - 2024), Mangalayatan University Uttar Pradesh, February 25-26, 2024. ISBN No. 978-93-95305-14-3 (**Editor**).
- Shaping the Future of Research and its Innovative Methodologies in various Multidisciplinary Streams. ISBN No. 978-93-95305-80-8 (**Editor**).

B. REVIEWED BOOKS

Review the following book titles for **Mc-Graw Hills publication**.

- Advanced Mechanics of Solids and Structures in 2018.
- Engineering Mechanics – Dynamics in 2015.
- Engineering Mechanics in 2011.

C. JOURNAL REVIEWER

- Certified Reviewer Awarded from Publons Academy (**Taylor and Francis**)
- Certificate of Reviewer from Material Today: Proceedings (**Elsevier Publication**)
- Certified Reviewer in Frontiers in Energy Research.
- Reviewer for the American Journal of Science and Engineering and Technology Investment, an international Journal.
- Reviewer for the Current Journal of Applied Science and Technology, an international Journal.

RESEARCH GUIDANCE

(7 – Research Scholars Supervised; 4 – Co-Supervised and 8 – Under Supervision)

- “Impact of biodiesel production parameters on heterogeneous catalyst by use of Machine learning techniques to study various characteristics of CI engine” Vartika Gupta (En. No. 20200957), Department of Mechanical Engineering, Mangalayatan University. (Awarded)
- “Study on Manufacturing Flexibility and their Control for Enhancing the Performance of FMS (Flexible Manufacturing System)” Mohd. Mohsin Khan (En. No. 20191246), Department of Mechanical Engineering, Mangalayatan University. (Awarded)

RESEARCH PROJECTS, CONSULTANCY AND PATENTS

(3 – Granted Patents; 3 – Patents Applied for Grant and 4 – Research Proposals submitted in UPCST and 1 in DST; Rs. 60 lakhs amount Consultancies provided to various organizations)

A. Patents

- “Secure long-range device to a communication method for IOT device using low power wide area network (LPWAN)”. (Australian Patent granted on May 19, 2021, with patent Number: 2021102086).
- “Gym-based electrical generation system with integrated kinetic energy conversion” (German patent application number -2024030616501600DE & Granted with Certificate G24122DW)

B. Research Proposals Submitted

- A research proposal entitled “Advancing Sustainable Biodiesel Production through Catalyst Optimization and Combustion Dynamics Analysis” (Project Id-3652) was submitted to Uttar Pradesh Council of Science and Technology (UPCST) on February 12, 2024. Rupees Twelve lakh Fifty Thousand (Rs. 12,50,000/-).

C. Research Projects Granted: -

- A research proposal entitled “Experimental Study to Enhance the Heat Transfer Rate Using Vortex Generator” submitted and approved by the Executive council on November 28, 2018. Rupees one hundred thousand (Rs. 1,00,000/-) granted as seed-money to continue the research work.
- A research proposal entitled “Production of Bio Diesel and Performance Analysis of Four Stroke Diesel Engine Using Sal Seed” submitted and approved by the Executive council on November 22, 2019. Rupees One Hundred Fifty Thousand (Rs. 1,50,000/-) granted as seed-money to continue the research work.
- A research proposal entitled “Compare Onset and Permanent Dry Our Heat Flux for 2*8 Grid with different Parameters” submitted and approved by the Executive council on December 28, 2020. Rupees fifty-five thousand (Rs. 55,000/-) granted as seed-money to continue the research work.
- A research proposal entitled “Experimental Study to Enhance the Heat Transfer Rate Using Vortex Generator” submitted and approved by the Executive council on November 28, 2018. Rupees one hundred thousand (Rs. 1,00,000/-) granted as seed-money to continue the research work.

TECHNICAL SKILLS

Programming Languages: C, C++.

Operating Systems: Windows, Linux

Software: Auto CAD/Solid Works/ EES/, MS Front Page/Teams/Excel/Word, Zoom

This is to declare that all the above information furnished by me is true to the best of my knowledge.

Date: 18/04/2025

Place: Aligarh



Prof. (Dr. Kishan Pal Singh)

Note: - The detailed resume will share along with the relevant documents after your confirmation.