



Bio-Sketch of Prof. Kalyan Kumar Singh Ph.D., FIE

Dr. Kalyan Kumar Singh, PhD, FIE
Professor, Department of Mechanical Engineering
Associate Editor: Sadhana, Springer (Q2)
Associate Editor: JRPC, SAGE Publication, UK (Q2)
Polymer Composite Lab (Mechanical Testing and Damage Analysis)
Former Dean Administration (Acting)
Former Associate Dean (Monitoring & Review)
Former Professor in charge (Exam & Academic)
Former HOC (Director Secretariat)
Indian Institute of Technology (Indian School of Mines) Dhanbad, India
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Dr. K. K. Singh is working as a Professor in the Department of Mechanical Engineering at IIT(ISM) Dhanbad.

He was the Dean Administration (Acting) and Associate Dean (Monitoring & Review) at IIT (ISM) Dhanbad. He joined ISM Dhanbad in August 2009.

He is among the top 2% Scientists globally according to a survey conducted recently by Stanford University and published by Elsevier (Elsevier's Database, 2022, 2023, 2024 & 2025).

Dr. Singh is selected for “State Coordinator” for the state of Jharkhand by MHRD New Delhi for State specific perspective plan for technical education in India. He is the Founder Chairman of Indian Society for advancement of Materials and Process Engineering (ISAMPE) Dhanbad chapter. He was the Honorary Secretary (2016-18) of “The Institution of Engineers (India)” Dhanbad Local Centre.

He has completed his Ph.D. (Mechanical Engineering) from Dr. A.P.J. Abdul Kalam Technical University, Lucknow in the year 2008 under the guidance of Prof. Prashant Kumar from IIT-Kanpur & Dr. R. K. Singh “Scientist “G” from DMSRDE (DRDO), Kanpur and his research place was IIT-Kanpur. He has worked as a faculty member at NIT-Jalandhar, Hindustan College of Science & Technology, Mathura, and Research Associate at Department of

Metallurgy, IISc. Bangalore and visiting research associate at IIT Kanpur in summers of 2004, 2005, 2006 & 2007. He also worked as a visiting faculty of Department of Management Studies at HIMCS Mathura.

He published 3 books and more than 179 research papers in international journals only. The total value of the R&D projects and STP courses under him is around 250 lakhs as a PI.

He has the life membership of ISTE (Indian Society for Technical Education) & ISAMPE (Indian Society for advancement of Materials and Process Engineering) and Fellow of the Institution of Engineers (India). He has also the membership of International Society of Impact Engineering (MISIE).

He has guided 19 Ph.D students as a sole guide or main guide and presently he is guiding 05 Ph.D students. He is also a reviewer and member in the editorial board of national & international journals including Associate Editor of “Sadhana” published from Springer (Q2) & JRPC published from SAGE publication, UK (Q2).

He was Ph.D thesis examiner for the students from the IIT Kanpur, IIT Delhi, BITS Pilani, IIT Guwahati, BIT Mesra Ranchi & many state/central level technological universities including VTU Karnataka.

Apart from all of these through his exemplary academic knowledge, he has taken interest in teaching students at UG and PG levels in different courses e.g., Engineering Graphics, Machine Drawing, Manufacturing Science, Un-Conventional Manufacturing, Composite Materials, Material Science & Engineering, Theory of Metal Forming and CAD/CAM. *Some of his popular course's like “Theory of Metal Forming” students have taken keen interest and the number of students in his class is around 190.*

He has visited Stony Brook University, New York (2014) & University of Delaware (2025) USA and Material Testing Centre, Ulm, Germany (2016). He has been invited for his talk at Department of Mechanical Engineering, IIT-Roorkee, IIT-Patna, Government Engineering College, Bagalkot, Karnataka, ADRDE, (DRDO) Agra, NIT Jalandhar, MSRIT Bangalore, BIT Sindri, NIT Goa, NIT Agartala, NIT Hamirpur & BIT Mesra, Ranchi.

He has been closely associated with the field of Composite Material for the last twenty-five years. He received the national merit scholarship in school days in continuous four years, cash prize for his SCI paper in 2007 in HCST Mathura, N.K Iyengar award in 2014 for his research paper from Institutions of Engineers, India, Canara Bank Research Paper Publication award for Department of Mechanical Engineering in continuous two years 2016 and 2017 at IIT-(ISM) Dhanbad and Best Research Paper Award in International Conference at Sikkim Manipal

University 2017. He also received IMTR award for best paper publication for Department of Mechanical Engineering from IIT (ISM) Dhanbad. His area of research is Advanced Nano Composites, Advanced Manufacturing, and Fracture Mechanics & Micro Mechanics.

Doctoral Thesis Guided as a Sole Guide /Main Guide: (Completed/ In-Progress)

1. Kuldeep Ojha (08405203), 2009 @ NIT Jalandhar (Completed)
2. Prakash S. Shinde (2010DR 0114) @ ISM Dhanbad (Completed)
3. Raju Narayanrao Ladhwe (2010DR0115) @ ISM Dhanbad (Completed)
4. Vinay B. Ugale (2010DR0116) @ ISM Dhanbad (Completed)
5. Sandeep Agrawal (2010DR0126) @ IIT-ISM Dhanbad (Completed)
6. Anil K Shrivastava (2010 DR 0127) @ IIT-(ISM) Dhanbad (Completed)
7. Nand Kishore Singh (2012DR0063) @ ISM Dhanbad (Completed)
8. Dhiraj Kumar (2013DR0010) @ IIT-(ISM) Dhanbad (Completed)
9. Nishant Kumar Singh (2013DR1048) @ IIT-(ISM) Dhanbad (Completed)
10. Sunil Kumar Chaudhary (2013 DR 1045) @ IIT-(ISM) Dhanbad (Completed)
11. Prashant Rawat (2014 DR 0127) @ IIT-(ISM) Dhanbad (Completed)
12. Brig Sanjay Prasad (2014 DR 1111) @ IIT-(ISM) Dhanbad (Completed)
13. Anand Gaurav (2015 DR 0038) @ IIT-(ISM) Dhanbad (Completed)
14. Md. Touhid Alam Ansari (2017 DR 000334) @ IIT-(ISM) Dhanbad (Completed)
15. Mahesh (2017 DR 000364) @ IIT-(ISM) Dhanbad (Completed)
16. Ruchir Shrivastava (2017 DR 000491) @ IIT-(ISM) Dhanbad (Completed)
17. Santosh Kumar (2017 DR 000630) @ IIT-(ISM) Dhanbad (Completed)
18. Raju Kumar Thakur (2017 DR 000646) @ IIT-(ISM) Dhanbad (Completed)
19. Nisha Sharma (2019 DR 0101) @ IIT-(ISM) Dhanbad (Completed)
20. Hemant Priyadarshi (22DR0090) @ IIT-(ISM) Dhanbad (On-Going)
21. Appu Kumar (23DR0226) @ IIT-(ISM) Dhanbad (On-Going)
22. Ratnakar Sunki (24DP0206) @ IIT-(ISM) Dhanbad (On-Going)
23. Kshitiz Shukla (24DR0322) @ IIT-(ISM) Dhanbad (On-Going)
24. Rakesh Bharti (25DR0035) @ IIT-(ISM) Dhanbad (On-Going)

- No. of MTech. Dissertation Guided: 60
- Paper Published in SCOPUS indexed International Journals: 180