



Profile of Dr. Pranab K. Dan

Dr. Pranab K. Dan, Associate Professor at the Indian Institute of Technology Kharagpur, in the School of Engineering Entrepreneurship (RMSoEE), obtained his bachelor's and master's degrees in Mechanical Engineering from IEST, Shibpur and Ph.D. in Production Engineering from Jadavpur University. He has been the Founding-Head of the Industrial Engineering & Management Department at the West Bengal University of Technology. Before joining academics, he worked in several renowned national and multinational industrial organizations and held senior positions. His research interests encompass Innovation and Frugal Engineering, Product Engineering & Design and Manufacturing systems. He has taught courses both at the RMSoEE and VGSOM at IIT Kharagpur and offered courses, namely, Technology Entrepreneurship, Engineering Design Process, Frugal Engineering, Manufacturing Strategy, Project Management and module in Innovation and Entrepreneurship, including subject of micro-specialization in Innovation and Entrepreneurship. He has published more than seventy research articles in international journals, conferences and as book-chapters and has supervised several Ph.Ds and guiding several others. He mentored student start-ups and is the Chairman of the Entrepreneurship Cell at IIT Kharagpur. Dr. Dan is the Principal and Co-Principal Investigator of several sponsored projects, including the prestigious 'National Initiative for Design Innovation' sponsored by MHRD, Govt. of India. He has travelled across the country and abroad to deliver talks and presentations on the subject matter. Dr. Dan consulted a number of companies and conducted training programmes in the areas of productivity, quality and innovation. He is a Fellow Member of the Association of Engineers, India. Dr. Dan, has been on the technical programme committees of renowned national and international conferences like ICoRD, AIMTDR, ICITM (UK) and chaired technical sessions in several others. Dr. Dan has been associated with CII for the past two decades.

Select Publications (Journals):

Sustainable organizational performance through lean implementation regimen emanating from product innovation factors: a study in Indian context, P. Basu, S. Banerjee, B. Bhowmick, P K. Dan (Accepted)

Lean manufacturing implementation and performance: The role of economic volatility in an emerging economy, Basu, Protik; Chatterjee, Debaleena; Ghosh, Indranil; Dan, Pranab, Journal of Manufacturing Technology Management (Accepted)

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Robust optimization in determining failure criteria of a planetary gear assembly considering fatigue condition, Mandol S., Bhattacharjee D., Dan P. K., Structural and Multidisciplinary Optimization, Springer, 53(2), pp.291-302, 2016

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An Analytical Review on Automatic Gear Shifting in Automotive Transmission, Bhattacharjee D., Bhola P., Dan P. K., International Journal of Vehicle Design, 77(4), pp 227-246, 2018, Inderscience

A comprehensive study of manifests in lean manufacturing implementation and framing an administering model, Basu P., Dan P. K., International Journal of Lean Six Sigma, 11 (4), pp 797-820, 2020, Emerald

A two-stage novel approach using centre ordering of vectors on agglomerative hierarchical clustering for manufacturing cell formation, Bera S., Chattopadhyay M., Dan P. K., Journal of Engineering Manufacture, 232(14), pp 2651-2662, 2017, Sage

Utilization-based Grouping Efficiency and Multi Criteria Decision Approach in Designing Manufacturing Cells, Ghosh T., Doloi B., Dan P. K., Proceedings of the Institution of Mechanical Engineers (IMEchE), Part B: Journal of Engineering Manufacture, 231(3), pp 505-522, 2016, Sage

Capacity Augmentation with VSM Methodology for Lean Manufacturing, Basu P., Dan P. K., International Journal of Lean Six Sigma, 5 (3), pp 279-292, 2014, Emerald

Factors influencing ERP implementation in Indian manufacturing organisations: A study of micro, small and medium-scale enterprises, Upadhyay P., Jahanyan S., Dan P. K., Journal of Enterprise Information Management, 24(2), pp 130-145, 2011, Emerald

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