Faculty Profile

Faculty Name	Dr. Janender Kumar
Designation	Assistant Professor (ME)
Qualification	Ph.D, M.Tech, B.E
Email	janender@gecnilokheri.ac.in
Area of Interest	Production and Industrial Engineering
Work Experience (Total)	24.5 yrs
• Teaching	20.2 yrs
• Research	-
• Industry	04.3 yrs
• Others	-
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Thermodynamics, internal combustion engine, Mechanical vibration and tribology, Total quality management and Quality and reliability engineering etc.
Membership of Professional Bodies	ISTE
Research Publications	
• Research Papers UGC-CARE/Peer Review	06
• Research Papers SCOPUS	03
• Research Papers WoS/SCI/ABDC	
• List of Publications	Enclosed as Annexure -1
Book and Chapter Publications	
• Books Authored published by International Publishers	-
• Books Authored published by National Publishers	-
• Publication of Chapter in Edited Books	02
• Editor of Book by International	

Publishers	-
• Editor of Book by National Publishers	-
• Translation Work of Book	-
• List of Book and Chapter Publications	Enclosed as Annexure -2
M.Tech. Guidance	
• Degree Awarded	03
• Thesis Submitted	
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference	07
• International (Abroad)	-
• International (Within Country)	03 (Scopus Indexed)

• National	04
• List of published papers	Enclosed as Annexure-3

Annexure -1

(i) J. Kumar, V. Khanna, M. Mehta, and S.A. Bansal, "Mathematical modeling and reliability analysis for pellet manufacturing unit of a polymer section," Materials today proceedings, vol. 74, no. 4, pp 962-968, 2023, https://doi.org/10.1016/j.matpr.2022.11.346.

(ii) J. Kumar, V. Khanna, M. Mehta, and R. Niwas, "Performance evaluation and optimisation of process parameters for a polypropylene unit in naphtha cracker plant using PSO," Materials today proceedings, 2022, https://doi.org/ 10. 1016 / j. matpr.2022.12.100.

(iii) J. kumar, K.K.Kataria and S. Luthra, "Quality Circle: A methodology to enhance the plant capacity through Why-Why analysis," International journal of mathematical, engineering and management sciences, vol. 5, no. 3, 463-472,2020, https://doi.org/10.33889/IJMEMS.2020.5.3.038.

(iv) Munish Mehta, Janender Kumar & Satish Kumar, "Implementation of quality circle-A case study," International journal of theoretical and applied machines, Vol. 6, Number 1, pp 11-17, 2011, ISSN-0973-6085.

(v) Janender Kumar, Munish Mehta & Satish Kumar, "Optimisation of plant efficiency through total productive maintenance," International journal of industrial engg. and technology. Vol. 3 Number 1, pp 63-68, 2011, ISSN-0974-3146.

(vi) Dipanshu Jain, Munish Mehta & Janender Kumar, "Identification and elimination of bottlenecks: A case study", International journal of recent trends in mechanical engineering, vol. 2, issue 3, ISSN-2347-7326, 2014.

(vii) Sushil, Janender Kumar & Satish Kumar, "Optimisation of process of process parameters for effective surface roughness in abrasive flow machining process", International journal of latest trends in Engineering & technology, vol.5, pp 373-382, 2015,ISSN-2278-621x.

(viii) Ram & Janender Kumar, "Parametric optimization for frictional stir welding of AL 6063 alloy using Taguchi technique", International journal of latest trends in engineering and technology, vol.6, issue 4,pp 604-610,2016.

(ix) Ram, Janender Kumar & Mandeep Singh, "Process parameters optimization for frictional stir welding of the Hardness of AL6063 alloy using Taguchi technique", International journal of engineering and management reasearch,vol.6,issue 2,pp 515-520,2016.

Annexure –2

(i) J. Kumar, A.P. Singh, A. Thakur and M. Mehta, "Ultrasonic machining process – A review," Advances in nonconventional machining processes, pp 1-16, 2020, Bentham Science Publishers, Singapur, ISBN (online): 978-981-14-8365-3.

(ii) J. Kumar, S.A. Bansal and M. Mehta, "Thermally enhanced non-conventional machining process – A review," Advances in nonconventional machining processes, pp 42-57, 2020, Bentham Science Publishers, Singapur, ISBN (online) : 978-981-14-8365-3.

Annexure -3

(i) J. Kumar, S.A. Bansal, and M. Mehta, "Reliability analysis- a critical review," Lecture notes in mechanical engineering, Recent trends in industrial and production engineering, pp. 205-217, 2021, https://doi.org/10.1007/978-981-16-3135-1_22.

(ii) J. Kumar, V. Khanna, M. Mehta, and S. Chauhan, "Behaviour analysis and optimisation of process parameters in petrochemical industry using PSO- a case study," Recent advances in materials, manufacturing and machine learning, RAMMML-2023, 2nd - 4th February 2023, pp 483-493, Taylor and Francis, 2023. https://doi.org/10.1201/9781003370628

(iii) Janender Kumar, "Quality circle: maximizing the productivity in coal handling plant through why-why analysis", Recent advances in mechanical engineering research and development (ICRAMERD-2021), 24^{TH} -25^{TH} September, Odisha, https://doi.org/10.1007/978-981-16-9057-0_3

(iv) Sushil, Satish Kumar & Janender Kumar, "optimization of process parameters for effective material removal in abrasive flow machining process", International conference on newest drift in mechanical engineering, (ICNDME-14), pp 548-555, 2014. https://doi.org/10.6084/m9.figshare.14258378.v1

(v) Janender kumar, Munish Mehta & Satish kumar, "Engg. Application of Nano Technology" Published in National Conference on Emerging trends in Mech. Engg."(ETME-2010), May 14-15, HCTM, Kaithal

(vi) Janender Kumar, "Productivity improvement Through Work Sampling Technique-A case study" published in National Conference on 'Advances in mechanical engineering (NCAME-11), May 20-21, 2011, UIET, Punjab.

(vii) Dipanshu Jain, Janender Kumar & Munish Mehta, "Increasing production rate of manager model machine using TPM pillars", National conference on engineering management and apparel & textile technology,vol.6, 2015, Ambala.