

## Profile Page



Name : Dr Lakhwinder Pal Singh Jarangal

Designation : Associate Professor

Department : Industrial & Production Engg.

Qualification : PhD Industrial Engineering (NIT Jalandhar)  
M.Tech Industrial Engineering (NIT Jalandhar)  
B.Tech Industrial Engineering (REC Jalandhar (PTU))

Address : Department of Industrial and Production Engg  
House: A-504 NIT Campus, GT Road Bypass  
Jalandhar, Punjab - 144011

Email : singhl@nitj.ac.in

### **Research Interests :**

Human Factors Engineering, Ergonomics, Occupational Health and Safety, Operations and Supply Chain Management

### **Journal Publications :**

Year	Journal	Publication
2021	International Journal of Supply and Operations Management, 8(3), 289-313.	Sharma, V. K., Sachdeva, A., & Singh, L. P. (2021). A Meta-Analysis of Sustainable Supply Chain Management from Different Aspects.
2021	Journal of Thermoplastic Composite Materials, 34(7), 977-1005.	Mann, G. S., Singh, L. P., Kumar, P., Singh, S., & Prakash, C. (2021). On briefing the surface modifications of polylactic acid: A scope for betterment of biomedical structures.
2021	Measurement, Elsevier, Vol. 131, pp. 19-27.	Singh, A., Singh, L. P., Singh, S., Singh, H., Chuneja, N and Singh, M (2019). Evaluation and analysis of occupational ride comfort in rotary soil tillage operation
2021	International Journal of the Analytic Hierarchy Process, 13(2)	Singh, L. P., & Suthar, H. (2021). Development Of Risk Assessment Method For Small Sized Hospitals Using AHP: A Case In Northern India: An Application of AHP in Hospitals for Risk Assessment Among Employees Attending Patients.
2020	International Journal of the Analytic Hierarchy Process, Vol. 11 Issue 2 2019 ISSN 1936-6744	Lakhwinder Pal Singh, Satnam Singh (2019), Strategic enhancement of workplace safety in small scale manufacturing industries using AHP Approach,
2019	Journal of Thermoplastic Composite Materials,	Mann, G. S., Singh, L. P., Kumar, P., & Singh, S. (2019). On briefing the surface modifications of polylactic acid: A scope for betterment of biomedical structures. 0892705719856052.
2019	Journal of Thermoplastic Composite Materials, 33(8), 1145-1171.	Mann, G. S., Singh, L. P., Kumar, P., & Singh, S. (2020). Green composites: A review of processing technologies and recent applications.

2019	Int. J. Vehicle Performance, Vol. 5, No. 3, 2019.	Singh, A., Singh, L P., Singh, S and Singh, H (2019). Investigation of Whole Body Vibration Transmission Responses among Indian Tractor Drivers.
2018	Int. J. Human Factors and Ergonomics, Vol. 5, No. 2, pp.151–165.	Amandeep Singh, Lakhwinder Pal Singh, Sarbjit Singh, Harwinder Singh. and Prakash, C. "Investigation of occupational whole-body vibration exposure among Indian tractor drivers"
2018	International Journal of Human Factors and Ergonomics (IJHFE), Vol. 5, No. 2, 2018.	Amandeep Singh, Nasir Nawayseh, Lakhwinder Pal Singh, Sarbjit Singh, and Harvinder Singh, (2018) Whole body vibration exposure during rotary soil tillage operation: the relative importance of tractor speed, pulling force and tilling depth.
2018	Int. J. Human Factors and Ergonomics, Vol. 5, No. 3, 2018.	Lakhwinder Pal Singh, Satnam Singh (2018), Safety index: a systematic approach to measure the level of occupational safety in manufacturing industry,
2018	International Journal of Vehicle Performance, In Press, Paper ID: IJVP_179271.	Singh, A., Singh, L P., Singh, S and Singh, H. (2018). Investigation of whole body vibration transmission responses among Indian tractor drivers.
2018	International Journal of Human Factor and Ergonomics, Vol. 5, No. 2, pp. 151-165.	Singh, A., Singh, L P., Singh, S., Singh, H and Chander, P (2018). Investigation of occupational whole-body vibration exposure among Indian tractor drivers.
2017	Journal of Industrial Safety Engineering. 2017; 4(3): 37–42 p.	Harbir Singh, Lakhwinder Pal Singh, “Musculoskeletal disorder and psychosocial work demands in Insurance industry: A case study
2017	Journal of Industrial Safety Engineering. 2017; 4(1): 1–4p.	Johny Khajuria, Lakhwinder Pal Singh, Sarbjit Singh, “ A Qualitative Investigation about Awareness of Occupational Health and Safety among Sawmill Workers in the City of Temples, Jammu
2017	Journal of Industrial Safety Engineering. 2017; 4(1): 10–14 p.	Arjan Singh, Lakhwinder Pal Singh, Arvind Bhardwaj, “Musculoskeletal Discomfort among Grinders Working in Manufacturing Industry
2017	Journal of industrial safety engineering. 4(2), p19-26., 2017	Singh, S., Singh, L. P., Development of safety index for small scale manufacturing Industries in Punjab
2017	International journal of research. (Accepted). 2017	Singh, S. and Singh, L. P., Prioritization of occupational safety parameters in small scale manufacturing industry- Analytical Hierarchy Process
2016	Int. J. Machining and Machinability of Materials, Vol. 18, Nos. 1/2, pp 185-199, 2016.	Naresh Kumar*, Anish Sachdeva, Lakhwinder Pal Singh, Himanshu Tripathi (2016), Experimental investigation of effect of roller burnishing process parameters on surface roughness and surface hardness of C40E steel
2015	Global Journal of Flexible Systems Management, First online: 25 November 2015, pp 1-13.	Lakhwinder Pal Singh and Ravi Teja Challa, Integrated Forecasting Using the Discrete Wavelet Theory and Artificial Intelligence Techniques to Reduce the Bullwhip Effect in a Supply Chain,
2015	International Journal of Supply and Operation Management, August 2015, volume 2, Issue 2, ISSN 2383-2525, pp.720-747	Rahul S Mor, Sarbjit Singh, Arvind Bhardwaj and LP Singh, Technological Implementation of Supply Chain Practices in Argi-food Sector- A Review,
2015	International Journal of the Analytic Hierarchy Process. Vol. 7 Issue 3 2015 ISSN 1936-6744	Singh H., Singh L P, Singh A., Bilga P S, Evaluation and prioritization of factors affecting energy expenditure of workers engaged in manual material handling using Analytical Hierarchy Process.
2013	Wyno Academic Journal of Engineering & Technology Research Vol. 1(3), PP. 30-36 May, 2013.	L P Singh, Prevalence of Low Back Injury (LBI) Risk Due To Manual Lifting Tasks Among Small Scale Casting Industry Workers,
2013	Hindawi Publishing Corporation ISRN Public Health, Volume 1 (3), Article ID 325410, pp:30-36.	Lakhwinder Pal Singh, Arvind Bhardwaj, Deepak Kishore Kumar ,Occupational Exposure to Respirable Suspended Particulate Matter and Lung Functions Deterioration of Steel Workers: An Exploratory Study in India

2013	IJSSPE, Volume – 4 & Issue – 1, Jan 2013,pp:36-38.	L P Singh, KK Deepak, G S Dhaliwal, An Investigation into Lung Functions of Healthy Engineering Graduates with Yogic Exercise
2013	IJSSPE, Volume – 4 & Issue – 1, Jan 2013, pp:31-35.	L P Singh, KK Deepak, G S Dhaliwal, An Investigation into Hearing Threshold of Healthy Engineering Graduates
2012	Int. J. Manufacturing Technology and Management, Vol. 25, Nos. 1/2/3, 2012, pp: 45-59	L P Singh, Investigation of comfort level and passenger seat design (side lower berth) in sleeper class coaches in Indian trains: an exploratory study
2012	Noise and Health, Year 2012, Volume 14, Issue 58 [pp. 119-128]	Lakhwinder Pal Singh, Arvind Bhardwaj, Deepak Kishore Kumar, Prevalence Of Permanent Hearing Threshold Shift Among Workers of Indian Iron and Steel Small And Medium Enterprises: A Study.
2012	Asian Journal of Managerial Science (AJMS) Vol.1 No.1 January - June 2012, pp: 17-23.	Lakhwinder Pal Singh, An Investigation into Work Postures of Workers Engaged in Casting Industry: A Study in India
2012	IJRMEC Volume2, Issue 3 - March 2012, pp: 66-77.	Dinesh Kumar, L P Singh, Gagandeep Singh, Operational Modeling For Optimizing Surface Roughness In Mild Steel Drilling Using Taguchi Technique
2012	IJPSS Volume 2, Issue 4, April, 2012. Pp 226-244.	Vikas Monga, Lakhwinder Pal Singh, Arvind Bhardwaj, Harmanpreet Singh, Respiratory Health in Brick Kiln Workers.
2012	IJPSS Volume 2, Issue 5, may 2012, pp: 129-144.	Vikas Monga, Lakhwinder Pal Singh, Harmanpreet Singh,, An Investigation into Satisfaction Level of Females Employees of Insurance Industry: A Study in India
2011	International Journal of Advanced Engineering Technology, Vol.VIII/ Issue I/January-March 2011/251-259.	Lakhwinder Pal Singh, Arvind Bhardwaj, KK Deepak, Respirable Suspended Particulate Matter (RSPM) and respiratory symptom among Casting Industry Workers: an exploratory study in Northern India
2011	International Journal of Advanced Engineering Technology IJAET/ Vol.II/ Issue I/January-March 2011/260-269.	S. Singh, L.P. Singh, A. Bhardwaj; Role of Logistics and Transportation in green supply chain management: An exploratory study of Courier service industry in India
2010	Ergonomics SA, 2010, 22(1), pp 36-56.	L P Singh, A Bhardwa1, KK Deepak and S Sahu, Small & medium Scale Casting and Forging Industry in India: an ergonomic study
2010	Noise & Health, January-March 2010, 12:46,37-48.	Lakhwinder Pal Singh, Arvind Bhardwaj, Kishore Kumar Deepak, Occupational exposure in small and medium scale industry with specific reference to heat and noise,
2010	International Journal of Advanced Engineering Technology, Vol.I/ Issue III/Oct.-Dec.,2010/358-366.	L P Singh, Work Posture Assessment in Forging Industry: An Exploratory Study in India,
2010	International Journal of Advanced Engineering Technology, IJAET/Vol. I/ Issue III/Oct.-Dec.,2010/339-349.	L P Singh, Risk assessment of Distal Upper extremities Disorders in SMEs vs Large scale Automotive Industry using Strain Index method
2009	Industrial Health 2009, 47, 423–430.	Lakhwinder Pal Singh, Arvind Bhardwaj, Kishore Kumar Deepak, Raman Bedi, Occupational Noise Exposure in Small Scale Hand Tools Manufacturing (Forging) Industry (SSI) in Northern India (Field Study),
2009	International Journal Of Human Geography And Environmental Studies December 2009, Volume 1, Number 1,pp-32-38	L P Singh, A Bhardwaj, KK Deepak, S Singh, Occupational heat exposure in extreme weather conditions in small and medium enterprises (SME) in India
2009	International Journal Of Human Geography And Environmental Studies December 2009, Volume 1, Number 1,pp-46-51.	L P Singh, A Bhardwaj, KK Deepak, S Singh, Occupational noise and hearing conservation of industrial workers in casting, forging industry in Northern India

2009	International Journal of Sustainability Science and Studies, December 2009, Volume 1, Number 1 pp-64-66.	S. Singh, K.S. Bhullar, L.P. Singh, A. Bhardwaj, R. Sharma, and A. Sachdeva, Recycling strategies of trade effluents of a textile processing industry based on physical, chemical and biological treatment in India
2009	The IUP Journal of Operations Management, Vol. VIII, Nos. 3 & 4, pp. 61-70, August & November 2009.	Lakhwinder Pal Singh, Arvind Bhardwaj, Anish Sachdeva, The Impact of Quality management Tools on Performance: An Exploratory Study on SMEs,
2008	Journal of Environmental Physiology, 1 (20), pp: 83-92, 2008.	L P Singh, A Bhardwaj, KK Deepak, S Shahu, Evaluation of Work Strain on Workers Working in Small Scale Forging Industry

### Conference Publications :

Year	Conference	Publication
2018	Effect of Occupational Factors on Musculoskeletal Disorders of the Insurance Office Employees: A Case Study”. Ergonomics in Caring for People, Chapter 5, 35- 41p, . Springer Nature Singapore Pte Ltd. 2018	Harbir Singh, Dr. Lakhwinder Pal Singh, Effect of Occupational Factors on Musculoskeletal Disorders of the Insurance Office Employees: A Case Study”.
2017	8th International Conference on Applied Human Factors and Ergonomics and its affiliated conferences 8th 2017 241-249.	Amandeep Singh, Lakhwinder Pal Singh, Sarbjit Singh, Harwinder Singh, “A Review Study on Biodynamic Response of Seated Occupants Exposed to Whole Body Vibration
2016	In Advances in Safety Management and Human Factors (pp. 357-366). Springer, Cham.	Singh, S., Singh, L. P., & Kaur, M. (2016). Analytical Hierarchy Process-Based Methodology for Selection of Safety Parameters in Manufacturing Industry.
2016	14th International Conference on Humanizing Work and Work Environment HWWE-2016 ISBN Number: 978-93-83006-81-6 14th 2016 231-235.	Suryansh Sharma, Aashna Nagar, Lakhwinder Pal Singh and Sarbjit Singh, “Low Cost Sanitary Napkins for Health and Hygiene of Remote/ Slum Feminine Population of India
2016	14th International Conference on Humanizing Work and Work Environment HWWE-2016 ISBN Number: 978-93-83006-81-6 14th 2016 440-445	Shruthi Prabhakar, B Bakappa and Lakhwinder Pal Singh , “Humanizing Hassles of Feminine Population due to Risk Involved in their Investment Pattern: A study of South Bangalore
2016	14th International Conference on Humanizing Work and Work Environment HWWE-2016 ISBN Number: 978-93-83006-81-6 14th 2016 514-517.	Harbir Singh, Lakhwinder Pal Singh, Satnam Singh and Rajinder Kumar, “A Study of Low Back Flexibility among Insurance Office Employees Using Sit and Reach Test
2016	14th International Conference on Humanizing Work and Work Environment HWWE-2016 ISBN Number: 978-93-83006-81-6 14th 2016 81-86.	Chandrani Choudhuri and Lakhwinder Pal Singh, “Humanizing Education and Work through Soft Skills Coaching
2016	International Ergonomics Conference on Humanizing Work and Work Environment, HWWE 2016, held in December 2016 at NIT Jalandhar.	Ripudaman Singh, Johny Khajuria, Lakhwinder Pal Singh, Sarbjit Singh, “ Environment Friendly Ejector Refrigeration System &#40;ERS&#41; Using Environment Friendly Refrigerant 407c
2016	National Conference on Advances in Chemical Engineering and Environment held in April 2016 at NIT Jalandhar	Johny Khajuria, Lakhwinder Pal Singh, Sarbjit Singh, “ An Ergonomic Evaluation of Musculoskeletal Disorders among the Saw-Filer Workers published in ACEE 2016

2016	International Ergonomics Conference on Humanizing Work and Work Environment (HWWE 2016) held in December 2016 at NIT Jalandhar	Johny Khajuria, Lakhwinder Pal Singh, Sarbjit Singh, Arjan Singh, “ An Ergonomic Investigation in Occurrence of Musculoskeletal Disorders among the Saw-Mill Workers
2016	14th International Conference on Humanizing Work and Work Environment HWWE-2016 ISBN Number: 978-93-83006-81-6 14th 2016.	Singh, S., Singh, L. P., (2016). Selection of occupational safety factors related to small scale manufacturing industry. r
2016	National Conference on Advances in Chemical Engineering and Environment held in April 2016 at NIT Jalandhar	Arjan Singh, Lakhwinder Pal Singh, Arvind Bhardwaj, “Assessment of COPD in grinding workers of manufacturing industry
2016	International Ergonomics Conference on Humanizing Work and Work Environment (HWWE 2016) held in December 2016 at NIT Jalandhar,	Arjan Singh, Lakhwinder Pal Singh, Arvind Bhardwaj, Johny Khajuria, “ Effect of exposure to dust on lung function of grinding workers in manufacturing industry
2016	International Conference on Energy, Environment and Economics (ICEEE-2016), 16-18 august 2016, Heriot – Watt University, Edinburgh, United Kingdom.	Dr L P Singh and Yogesh Kumar, “Exploring Potential for solar photovoltaic park: A case study on Madhya Pradesh State of India
2015	In HWWE 2015 hosted by IIT Bombay and NITIE Mumbai and PEC Chandigarh during December 06-09, 2015.	Dr L P Singh and Harbir Singh, “Assessment of work postures and musculoskeletal disorders among Insurance office employees: a case Study
2015	HWWE 2015 hosted by IIT Bombay and NITIE Mumbai and PEC Chandigarh during December 06-09, 2015	L P Singh and Satnam Singh,” AHP-Based Methodology for Selection of Safety Parameters in Manufacturing Industry
2015	HWWE 2015 hosted by IIT Bombay and NITIE Mumbai and PEC Chandigarh during December 06-09, 2015	Satnam Singh, Dr L P Singh, Rajinder Kumar Moom, Harbir Singh, presented a paper titled “Use of Content validity index for selection of occupational safety factors for workers in manufacturing industry
2015	6th International Conference on Applied Human Factor and Ergonomics (AHFE-2015), Procedia Manufacturing 3 (2015) 6624-6631	Rajinder Kumar Moom, Dr. Lakhwinder Pal Singh, Neelam Moom “Prevalence of Musculoskeletal Disorder among Computer Bank Office Employees in Punjab (India): A Case Study
2014	International Ergonomics Conference HWWE-2014, at IIT Guwahati	Lakhwinder Pal Singh, Amandeep Singh, Assessment of Occupational Heat Stress and Whole Body Vibration Exposure in Textile Processing Unit: A Case Study
2014	HWWE-2014, IIT Guwahati	Arjan Singh *, Lakhwinder Pal Singh, A meticulous review of respiratory health & dust exposure among cement industry workers and interventions to improve health,
2014	HWWE-2014, IIT Guwahati	Dr L P Singh, An Investigation into work related MSD of Nurses Engaged in Hospitals: A Study in Northern India, HWWE-2014
2014	HWWE-2014, IIT Guwahati	Johny Khajuria , Lakhwinder Pal Singh , Ayaz Ahmed, Investigation and analysis of latency response of mobile users: a case study of an institute, HWWE-2014
2014	HWWE-2014, IIT	Mahipal Singh, Dr. L.P. Singh, Manjinder Bajwa, A Comprehensive Survey On Latest Research Trends In Cognitive Ergonomics, International Ergonomics Conference.

2014	Isahp Article: Mu, Saaty/A Style Guide For Paper Proposals To Be Submitted To The International Symposium Of The Analytic Hierarchy Process 2014, Washington D.C., U.S.A, pp-1-10	Harwinder Singh, Amandeep Singh, Paramjit Singh Bilga, Lakhwinder Singh, Assessment of Energy Expenditure of Workers By Using 'AHP': A Case Study Of Process Industry,
2013	World Academy of Science, Engineering and Technology, International Science Index Issue e 84, December 2013, Melbourne, PISSN 2010-276x, EISSN 2010-3778, pp 1047-51.	Lakhwinder Pal Singh, Green Supply Chain management practices and Scenario in India: a Review,
2013	CPIE-2013, and March 29-31, 2013	Lakhwinder pal Singh, Analysis of Lifting Tasks in Small scale Casting Industry using NIOSH Lifting Equation,
2012	BEATS 2012 2nd International Conference on Biomedical Engineering and Assistive Technologies 6-7 December 2012, Jalandhar, INDIA.	L P Singh, KK Deepak, G S Dhaliwal, An Investigation into Lung Functions of Healthy Engineering Graduates with Yogic Exercise
2012	BEATS 2012 2nd International Conference on Biomedical Engineering and Assistive Technologies 6-7 December 2012, Jalandhar, INDIA.	L P Singh, KK Deepak, Arvind Bhardwaj and G S Dhaliwal An Investigation into Brainstem Auditory Evoked Potential Response (Latency Time) among Casting & Forging Industry Workers vs. Controls
2012	BEATS 2012 2nd International Conference on Biomedical Engineering and Assistive Technologies 6-7 December 2012, Jalandhar, INDIA.	L P Singh, KK Deepak, G S Dhaliwal, An Investigation into Hearing Threshold of Healthy Engineering Graduates
2012	Proceedings to the 4th Applied Human Factors and Ergonomics (AHFE) International Conference. San Francisco, California, U.S.A (21-25 July, 2012).	Lakhwinder Pal Singh, "An Investigation into Blood Pressure of Blue collar workers of Casting and Forging SMEs: A study in India
2012	Proceedings to the 4th Applied Human Factors and Ergonomics (AHFE) International Conference. San Francisco, California, U.S.A (21-25 July, 2012)	Lakhwinder Pal Singh, Amanpreet Singh, Supreet Kaur, "Work Posture Assessment of Computer Users using CARULA
2012	Proceedings of BEATS-2012, ISBN-13:978-81-925454-1-7.	Lakhwinder Pal Singh, KK Deepak and Arvind Bhardwaj. "An investigation into Brainstem Auditory Evoked Potential among Steel Workers
2012	Proceedings of BEATS-2012, ISBN-13:978-81-925454-1-7	Lakhwinder Pal Singh, KK Deepak and Arvind Bhardwaj. "An investigation into Lung Functions of young engineering graduates with yogic Exercises
2012	Proceedings of BEATS-2012, ISBN-13:978-81-925454-1-7	Lakhwinder Pal Singh, Arvind Bhardwaj and Gurmej Singh Dhaliwal. "An investigation into Hearing Threshold of young engineering graduates with yogic Exercises
2011	57th Annual Conference of Association of Physiologists and Pharmacologists of India, December 13 - 17, 2011, AIIMS, New Delhi, INDIA.	Lakhwinder Pal Singh, Dr Kishore Kumar Deepak, Dr Arvind Bhardwaj, Cardiac Autonomic Tone of Workers Engaged in Casting and Forging Industry : A study in India
2010	International Conference on Biomedical Engineering and Assistive Technologies (BEATs-2010) 17-19 December, 2010, NIT Jalandhar.	L P Singh, A Bhardwaj, KK Deepak, Increased Autonomic Controls in Workers Engaged in Forging Industry,
2010	2nd International Conference on Production and Industrial Engineering (CPIE-2010), NIT Jalandhar	L P Singh, A Bhardwaj, Investigation of comfort level and passenger seat design (lower side berth) in sleeper class coaches in Indian trains: An exploratory study
2010	3rd INTERNATIONAL CONGRESS OF ENVIRONMENTAL RESEARCH, September 16-18, 2010, University of Mauritius, Reduit, Mauritius.	L P Singh, Respirable dust exposure and respiratory symptom in Casting Industry: an exploratory study in Northern India
2010	International Conference on Sustainability, Human Geography and Environmental Studies December, ICSHGES-6-8 November 2009, pp; 144-150.	L P Singh Occupational noise and hearing conservation of industrial workers in casting, forging industry in Northern India

2009	International Conference on Sustainability, Human Geography and Environmental Studies December, ICSHGES-6-8 November 2009, pp; 144-150.	L P Singh Occupational noise and hearing conservation of industrial workers in casting, forging industry in Northern India
2009	International Ergonomics Conference, HWWE Humanizing Work and Work Environment 17th –19th December, 2009, University College of Science and Technology, University of Calcutta.	L P Singh, Occupational safety and use of Personal Protective Equipment (PPEs) in Casting and Forging SMEs: an exploratory study
2008	International Ergonomics Conference HWWE-08 proceeding © 2008 Vishavkarma Institute of Technology, Pune, India.43-51, 2008	Lakhwinder Pal Singh, Arvind Bhardwaj, Aashim Sareen, Finding risk of distal upper extremities disorders in forging industry using Strain Index method
2008	International Ergonomics Conference HWWE-08 proceeding © 2008 Vishavkarma Institute of Technology, Pune, India. 52-57, 2008.	Ali Haider Rizvi, Lakhwinder Pal Singh, Arvind Bhardwaj, Human integration matrix to apply human systems integration in developing of new products
2007	PICMET 2007 Proceedings, 5-9 August, Portland, Oregon - USA © 2007 PICMET, pp;2031-2037	Lakhwinder Pal Singh, Dr. A Bhardwaj and A Shachdeva, Impact of ISO Implementation on output parameters in SMEs in India
2006	Portland international conference on management of Engineering and Technology PICMET-06, 09-13 July,2006, pp; 2393-2399.	Lakhwinder Pal Singh, Dr. A Bhardwaj and A Sachdeva, Quality management practices V/S Performance of SMEs (an empirical study of Indian Industries)
2005	Proceedings of 14th ISME International Conference on Mechanical Engineering in Knowledge Age, Dec 12-14, 2005, PP: 350-355	Lakhwinder Pal Singh, Arvind Bhardwaj and Anish Sachdeva, “The impact of Various Productivity Improvement Techniques on Output Parameters in SME’s
2004	Proceedings of 4th Global Conference on Flexible System Management (Dec, 26-29, 2004), PP: 300-306	Lakhwinder Pal Singh, Anish Sachdeva, Arvind Bhardwaj, “Lean Manufacturing” A changing paradigm in the Manufacturing World

### Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Book Chapter (International)	A Review Study on Biodynamic Response of Seated Occupants Exposed to Whole Body Vibration in		Amandeep Singh, Lakhwinder Pal Singh, Sarbjit Singh, Harwinder Singh	Springer International Publishing AG. Part of Springer Nature. Online ISBN 978-3-319-60828-0	2017
Book (International)	Work study and Ergonomics	Cambridge University Press is part of the University of Cambridge.	Lakhwinder Pal Singh	ISBN 978-1-107-50336-6 (pbk.).	2016

Book Chapter (International)	Analytical Hierarchy Process-Based Methodology for Selection of Safety Parameters in Manufacturing Industry in Advances in Safety Management and Human Factors	Springer, Cham, Online ISBN 978-3-319-41929-9.	Satnam Singh, Lakhwinder Pal Singh and Mandeep Kaur	ISBN 978-3-319-41929-9.	2016
Book (National)	Human Factor Engineering		Lakhwinder Pal Singh, Arvind Bhardwaj	Galgotia Publications, ISBN : 978-81-75157-32-3	2013
Ref. Book (International)	Productivity Improvement Measures and Performance of SMEs	LAP LAMBERT Academic Publishing (2012),	Lakhwinder Pal Singh, Arvind Bhardwaj, Anish Sachdeva	ISBN:978-3659-11436-6	2012
Ref. Book (International)	Satisfaction Level and Stress among the Insurance Industry Employees	LAP LAMBERT Academic Publishing (2012),	Lakhwinder Pal Singh, Harmanpreet Singh	ISBN:978-3-659-12815-8	2012
Book Chapter (International)	An Investigation into Blood Pressure of Blue collar workers of Casting and Forging SMEs: A study in India	Taylor & Francis (2012) CRC Press, Pages 241-249,	Lakhwinder Pal Singh	ISBN-978-1-4398-7038-9	2012
Book Chapter (International)	Work Posture Assessment of Computer Users using CARULA	Taylor & Francis (2012) CRC Press, Print	Lakhwinder Pal Singh, Amanpreet Singh, Supreet Kaur	ISBN: 978-1-4398-7024-2, Pp 249-257.	2012

### Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Dr Lakhwinder Pal Singh	Research	Investigation of Biodynamic Responses Among Indian Tractor Operators Exposed to Whole Body Vibration	The institution of Engineers India	2016-2017	2017-2018	75000	on going	

### Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	National	MHRD/AICTE sponsored summer school on "Supply Chain management: Issues and Challenges"	Dr. B R Ambedkar NIT Jalandhar	13-07-2009	17-07-2009	Coordinator.



STC	National	Organised AICTE/MHRD Sponsored one week Summer School on "Enhancing Competitiveness in manufacturing and Service Organisations"	Dr. B R Ambedkar NIT Jalandhar.	20-07-2009	24-07-2009	Co-Coordinator
Conference	International	Organized BRICS Meeting of Ergonomics Societies, from Dec 8-11, 2016	Dr. B R Ambedkar NIT Jalandhar	08-Dec-2016	11-Dec-2016	Coordinator
Conference	International	4th International Conference on Production and Industrial Engineering (CPIE-2016)	Dr B R Ambedkar NIT Jalandhar	19-Dec-2016	21-Dec-2016	Co-convenor
Conference	International	Organized 14th International of Indian Society of Ergonomics and International Ergonomics Association on Humanizing Work and Work Environment (HWWE-2016) as Co-Chair and Organizing Secretary, from Dec 8-11, 2016	Dr. B R Ambedkar NIT Jalandhar	08-Dec-2016	11-Dec-2016	Co-chair and Organizing Secretary
Conference	International	3rd International Conference on Production and Industrial Engineering (CPIE-2013)	Dr. B R Ambedkar NIT Jalandhar	10-Mar-2013	12-Mar-2013	Joint organizing secretary
Conference	International	2nd International Conference on Production and Industrial Engineering (CPIE-2010)	Dr. B R Ambedkar NIT Jalandhar	01-Dec-2010	03-Dec-2010	Joint Organizing Secretary
Conference	International	1st International Conference on Production and Industrial Engineering (CPIE-2010)	Dr. B R Ambedkar NIT Jalandhar	March 10, 2007	March 12, 2007	Treasurer
STC	National	Organised TEQIP sponsored STC on "Recent Advances in Industrial Engineering" from July 8-12, 2013 as a Coordinator	Dr. B R Ambedkar NIT Jalandhar	08-Jul-2013	12-Jul-2013	Coordinator

STC	National	Organised TEQIP sponsored STC on "Human Factors Engineering" from July1-5, 2013 as a Co-ordinator	Dr. B R Ambedkar NIT Jalandhar	01-Jul-2012	05-Jul-2013	Coordinator
Student Symposium	National	Students Symposium "INNOVESTA-2017)	Dr B R Ambedkar NIT Jalandhar	08 Nov, 2017	09 Nov, 2017	Coordinator
Conference	International	Annual General Body Meeting of Indian Society of Ergonomics during HWWE-2016	Dr. B R Ambedkar NIT Jalandhar	Dec 10, 2016	Dec 10,2016	Organizing Secretary
Yoga Day Celebration	International	International Yoga day	Dr B R Ambedkar NIT Jalandhar	21-06-2015	21-06-2015	Coordinator Yoga Club

### Professional Affiliations :

Designation	Organization
Life Member	1. Life Member of The association of Physiologists and Pharmacologists of India since 16th Dec. 2011.
Life Member	"International Association of Engineers (IAENG) since March 13, 2010. Vide LM No. 105833
Life Member	The Indian Society of ergonomics since May 10, 2010. Vide LM No. L233-20 March 09.
Life Member	GIFT Society vide membership No. N0102025
Life member	Institution of Industrial Engineering (IIIE), LM-10788 (99).
Life member	Institution of Engineering India (IEI) M1569842 w.e.f. 31-01-2017
Life member	ISTE vide membership No. LM 29165 since September 9th, 2013

### PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Guravtar Singh	Composites	Awarded	2021	Dr. Pramod Kumar
Satnam Singh	Parametric Study of Occupational Safety Norms for SMEs in Punjab	Awarded	2019	
Arjan Singh	Ergonomics & Occupational Health	Awarded	2019	Dr. Arvind Bhardwaj
Johny Khajuria	Ergonomics	Awarded	2019	Dr Sarabjit Singh Bal
Amandeep Singh	Ergonomics & Human Health	Awarded	2019	Dr Sarabjit Singh Bal, Dr Harwinder Singh
Harbir Singh	Ergonomics	Awarded	2019	

### Patents :

Name	Reg./Ref. No.	Date of Award/Filing	Organization	Status
Patent: Incinerator for biomedical waste management	Ref No: 202111000129	2021/02	Patent Office Delhi	Filed
Ergonomic Design of Transfer Assisting Device (portable stretcher)	201611016124	2016	Patent Office Delhi	Published, FER Response Filed
Design: Chakrasana Device	Application No: 332365-001	26/08/2020	Controller of Patent office Calcutta	Granted

Design: Lizard Catcher Device	Application/File No : 332643-001	02/09/2020	Controller of Patent office Calcutta	Granted
Design: Chakrasana Device	Application/File No: 332644-001	02/09/2020	Controller of Patent office Calcutta	Granted
Copyright: Computer Aided Posture Analysis (CAPA) Software	20366/2019/CQ/SW	2019		Granted
Design: Apparatus For Lifting And Lowering LPG Cylinders	Application No : 338520-001	03/02/2021	Controller of Patent office Calcutta	Filed
Patent: Method and System for Real- Time Risk Assessment of Musculoskeletal Disorders	Application File No:202011053052	2020/12/05	Patent Office Delhi	Filed
Patent: Posture Assisting Device for Performing an Exercise	Application File No: 202011003769	2021/01/28	Patent Office Delhi	Filed
Patent: Apparatus for Lifting and Lowering of LPG Cylinders.	Application File No: 202111003765	2021/01/28	Patent Office Delhi	Filed

### **Admin. Responsibilities :**

<b>Position Held</b>	<b>Organization</b>	<b>From</b>	<b>To</b>
Dy. Chairman Cultural Affairs	Dr B r Ambedkar NTI Jalandhar	2008	2015
Faculty Advisor, Yoga and Meditation Club	Dr B R Ambedkar NIT Jalandhar	April, 2015	June,2016
Coordinator, Innovation Club	Dr B R Ambedkar NIT Jalandhar	20-02-2017	Till date
Coordinator safety	Dr B R Ambedkar NIT Jalandhar	20-05-2015	till date
Faculty Advisor, Central Workshop	Dr b R Ambedkar NIT Jalandhar	20-02-2017	08-02-2018
Warden H-4	Dr B R Ambedkar NIT Jalandhar	20-07-2005	03-10-2006
Coordinator, NSS	Dr B R Ambedkar NIT Jalandhar	17-08-2016	20-09-2017
Assistant proctor	Dr B R Ambedkar NIT Jalandhar	01-02-2011	20-07-2005