

## Profile Page



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### **Research Interests :**

Welding Technology

### **Other Profile Links :**

#### **Google Scholar Link :**

D k Shukla [Click Here](#)[Dinesh Kumar Shukla](#) [Click Here](#)

### **Journal Publications :**

Year	Journal	Publication
2019	Journal of Alloys and Compounds, 783, pp. 753-764	Dissimilar MIG-CMT weld-brazing of aluminium to steel: A review, Singh, J., Arora, K.S., Shukla, D.K.
2019	Materials Research Express 6(2),026561	Phase transformation and impact toughness in HAZ of micro alloyed X80 line pipe steel, Singh, M., Kumar, R., Shukla, D.K., Arora, K.S.
2019	Journal of Thermal Analysis and Calorimetry	Comparative analysis of continuous cooling transformation behaviour in CGHAZ of API X-80 and X-65 line pipe steels: Singh, M.P., Arora, K.S., Shajan, N., (...), Kumar, R., Shukla, D.
2018	International Journal of Modern Manufacturing Technologies 10(1), pp. 50-56	Impression creep studies on simulated reheated haz of P91 and P91b steels: Khajuria, A., Kumar, R., Bedi, R., Swaminathan, J., Shukla, D.K.
2017	International Journal of Mechanical Engineering and Technology 8(7), pp. 1638-1651	A review of friction stir processing of aluminium alloys using different types of reinforcements, Kumar, K., Gulati, P., Gupta, A., Shukla, D.K.
2017	International Journal of Mechanical Engineering and Technology 8(7), pp. 1524-1531	Tensile and impact strength evaluations of fswed magnesium alloys: Influence of speed ratios (?/V), Gupta, A., Gulati, P., Singh, J., Shukla, D.K.

2017	Materials Today: Proceedings 4(2), pp. 1005-1012	Defect formation analysis of Friction Stir welded Magnesium AZ31B alloy, Gulati, P., Shukla, D.K., Gupta, A.
2017	Advanced Materials Manufacturing & Characterization Vol 7 Issue 2	Investigation of the Effects of Plunge Depth on the Resulting Temperature Distribution, Microstructure and Mechanical Properties of Friction Stir Welded AZ31B Magnesium Alloy: Piyush Gulati, Dinesh Kumar Shukla
2016	Journal of Manufacturing Processes 21, pp. 14-22	Mathematical modeling of effect of polarity on weld bead geometry in submerged arc welding, Singh, R.P., Garg, R.K., Shukla, D.K.
2016	Materials Today: Proceedings 4	Defect formation analysis of Friction Stir welded Magnesium AZ31B alloy: Akash Gupta Piyush Gulati, Dinesh Kumar Shukla
2016	Journal of Materials & Metallurgical Engineering (JoMME) Vol 6 Issue 3	Effect of Pin Profile on Micro Structure and Mechanical Properties of Friction Stir Welded AZ31B Magnesium Alloy: Piyush Gulati, Dinesh Kumar Shukla
2015	Multidiscipline Modeling in Materials and Structures 11(4), pp. 494-506	Optimization of response parameters for polarity in submerged arc welding, Singh, R.P., Garg, R.K., Shukla, D.K.
2015	Materials Today: Proceedings 2(4-5), pp. 3463-3470	Effect of Tool rotation speed and feed rate on the formation of tunnel defect in Friction Stir Processing of AZ31 Magnesium alloy, Gupta, A., Singh, P., Gulati, P., Shukla, D.K.
2014	Journal of Materials and Metallurgical Engineering 4 (2), 10-15	Effect of Tool Tilt on Formation of Tunnel in Friction Stir Welded 5083 Joints: An Experimental Study: SK Tiwari, DK Shukla, R Chandra
2013	International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering Vol 7 Issue 12 pp 2403-2408	Friction stir welding of aluminum alloys: a review : SK Tiwari, Dinesh Kumar Shukla, R Chandra
2012	International Journal of Thermal Sciences 59, pp. 161-175	Optimizing electric discharge machining parameters for tungsten-carbide utilizing thermo-mathematical modelling, modelling Singh, H., Shukla, D.K.
2012	Advanced Materials Research 488-489, pp. 1737-1741	Dilution control by advanced submerged arc welding, Shukla, D.K., Pandey, S.

### Conference Publications :

Year	Conference	Publication
2010	Welding Roadmap to Excellence	Study of Metal Transfer in Advanced Submerged Arc Welding, Dinesh Kumar Shukla, Sunil Pandey
2009	24th Indian Engineering Congress	Cladding of Stainless Steel 308L on Carbon Steel Substrate by Submerged Arc Welding, Dinesh Kumar Shukla, Manoj Kumar, Zaheer Khan YusufZai, Sunil Pandey
2009	National Welding Seminar 2009 at Mumbai	Welding Current Behaviour In Advanced Submerged Arc Welding , Dinesh Kumar Shukla, Manoj Kumar, Zaheer Khan YusufZai, Sunil Pandey
2008	International Congress 2008 at International Institute of Welding, Chennai India	Prediction of Welding Current and Weld Bead Geometry in Submerged Arc Welding, Dinesh Shukla and Sunil Pandey
2007	Global Conference on Production and Industrial Engineering” held at NIT Jalandhar (PB) India	CO2 shielding of Gas Metal Arc Welding Process: A case study, Dinesh Kumar Shukla, Manoj Kumar, Anchal Sondhi and Sunil Pandey

2007	Global Conference on Production and Industrial Engineering” held at NIT Jalandhar (PB) India	Study of process parameters on dilution in Advanced Submerged Arc Welding, Dinesh Kumar Shukla, Manoj Kumar, Sunil Pandey
2007	Global Conference on Production and Industrial Engineering” held at NIT Jalandhar (PB) India	To enhance the wear resistance of impact absorbing flanges of railway coach through welding, Manoj Kumar, Dinesh Kumar Shukla, R Arulmani, Sunil Pandey
2007	Global Conference on Production and Industrial Engineering” held at NIT Jalandhar (PB) India	Design and Development of Hardfacing SMAW Electrode, Manoj Kumar, Dinesh Kumar Shukla, Sunil Pandey
2007	National Conference on Recent Developments in Manufacturing & Quality Management (RDMQM–2007), Dept of Mechanical Engineering, Punjab Engineering College, Chandigarh	Surfacing through Tubular covered electrodes , Arulmani R, Dinesh Shukla and Sunil Pandey
2007	National Conference on Welding – Productivity and Quality” held at Naval Materials Research Laboratory, Research and Development Organisation, Ambernath, Thane MS	Comparative study of Gas Metal Arc Welding (GMAW) and Submerged Arc Welding (SAW) processes, Dinesh Kumar Shukla, Manoj Kumar, Nibha Meena and Sunil Pandey
2007	National Conference on Welding – Productivity and Quality” held at Naval Materials Research Laboratory, Research and Development Organisation, Ambernath, Thane MS	Parametric study of Plasma Enhanced Shielded Metal Arc Welding (PESMA) process, Sunil Pandey, S. Thiruchitrabalam, Dinesh Kumar Shukla Manoj Kumar and Anchal Sondhi
2006	NSWT-06, A National Symposium on Welding Technology, Sant Longowal Institute of Engineering and Technology (SLIET), Sangrur (PB) Punjab.	Weld Penetration behavior in Plasma Enhanced Shielded Metal Arc Welding, Dinesh Kumar Shukla, Sunil Pandey and Manoj Kumar
2006	NSWT-06, A National Symposium on Welding Technology, Sant Longowal Institute of Engineering and Technology (SLIET), Sangrur (PB) Punjab.	To Enhance the Residual Life of Buffers of Railway Coach through Welding, Manoj Kumar, Sunil Pandey and Dinesh Kumar Shukla
2004	7th International Symposium TRANSPORT NOISE AND VIBRATIONS, (June 8-10,2004), St. Petersburg, Russia.	Effect of impact noise on humans- A case study for drop forge hammers, Bedi Raman, D K Shukla, Sachdeva Anish
2004	National Seminar on Energy Management” 17-18th March, 2004, NITTTR, Chandigarh	Energy and Environment Conservation through Waste Management – A case study for Re-refining of used Oils, Bharj R S, Bedi Raman & Shukla D K.
2003	XIII National Conference of Indian Society of Mechanical Engineers at Department of Mechanical and Industrial Engineering, Indian Institute of Technology Roorkee, 247667 (India), (December 30-31, 2003)	Parametric Optimization of Electric discharge machining of Hot Work Tool Steel (DB-6) by taguchi method, Dinesh Kumar Shukla, Dr Sehj Pal Singh, Raman Bedi

### Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	Natonal	Welding: Roadmap to Excellence	Mechanical Engineering Department NIT Jalandhar	27-12-2010	31-12-2010	Coordinator
STC	Natonal	Perspective of Welding Technology	Mechanical Engineering Department NIT Jalandhar	28-12-2009	02-01-2010	Coordinator

STC	Natonal	Recent Trends in Materials Research	Mechanical Engineering Department NIT Jalandhar	15-12-2017	19-12-2017	Co-Coordinator
Conference	Natonal	19th ISME Conference on Advances in Mechanical Engineering	Mechanical Engineering Department NIT Jalandhar	20-12-2018	22-12-2018	Treasurer

### Research Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Gurveen Singh	PARAMETRIC STUDY ON USING SURFACE ACTIVE ELEMENTS IN GTAW PROCESS	Submitted	2019	
Piyush Gulati	STUDY OF PROCESS PARAMETERS IN FRICTION STIR WELDING ON MAGNESIUM ALLOYS	Completed	2019	
Shalabh Kumar Tiwari	Some Investigations on Friction Stir Welding of Aluminum Alloy 5083	Completed	2016	Dr Rakesh Chandra
Ravinder Pal Singh	Some Investigations on SAW of High Strength Low Alloy Steel	Completed	2016	Dr R K Garg

### Admin. Responsibilities :

Position Held	Organization	From	To
Coordinator NCC	Dr B R Ambedkar National Institute of Technology Jalandhar	11-08-2011	till date
Workshop Superintendent	Dr B R Ambedkar National Institute of Technology Jalandhar	03-04-2013	05-01-2015
Head (Mechanical and Mining Engineering)	Dr B R Ambedkar National Institute of Technology Jalandhar	24-01-2019	till date
Member BOS Industrial Engineering	Dr B R Ambedkar National Institute of Technology Jalandhar		