

RESUME OF Dr. DHARMENDRA PATEL

1. **Name** : Dr. DHARMENDRA PATEL
2. **Designation** : Assistant Professor, Dept. of Production & Industrial Engineering.
N.I.T. Jamshedpur
3. **Date of Joining:** 26th March, 1996
4. **Field of Specialization:**
 - (i) Production Engineering
 - (ii) Industrial Engineering
 - (iii) Industrial Management

5. **Ph.D. Guidance: Completed: 02, Ongoing: 02**

Sl. No.	Name of candidate	Topic of Research	Year of obtaining Degree
1	Dr. Pravin Kr. Singh	Investigation on the effect of mechanical vibration in Mild Steel Weld Pool.	2018
2	Dr. Sanjay Kumar	Experimental Investigation and Optimization of welding parameters on TIG welding of stainless steel AISI304 plate	2019
3	Pankaj Singh	Optimization of chassis assembly line through simulation-Industry 4.0	Continuing
4	Sunny Kumar	Development of electroless coating for wear resistance & anticorrosion applications	Continuing
5	Jogendra Jangre	QFD based model for site selection for biomedical waste disposal	Continuing
6	Himanshu Batham	Coating	Continuing

6. **Laurels:**

- (i) Reviewer of International Journal AMSE, France.
- (ii) Chaired the session SA-3: “Fuzzy Sets” and conducted the proceedings in XXXIII Convention of the Operational Research Society of India, Dec. 14-16, 2000, held in IIM Ahmadabad.

7. Educational Qualification:

Sl. No.	Degree	Subject	Year	Class/Division	Institute/University
1	Ph.D.	Design of Cellular manufacturing system using Fuzzy sets	2010 January		Ranchi University
2	M.Tech.	Mechanical (Production)	1999	CGPA 7.69	BIT Sindri V.B.U. Hazaribag
3	B.Tech.	Production Engg.	1989	74.15% 1 st class with Distinction	BIT Sindri Ranchi University

LIST OF PUBLICATIONS

Link to publication websites

- **ORCID:** <http://orcid.org/0000-0001-6281-7997>
- **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57198452277>
- **Web of science/Publons/Researcher ID:** <https://publons.com/researcher/ABG-8579-2020/>
- **Google Scholar ID:** <https://scholar.google.co.in/citations?user=C1C0n78AAAAJ>

8. Research Publications in International Journals: 13

- (i) D. Patel, U.C. Ray, 2005, “Interactive fuzzy linear programming approach in design of cellular manufacturing system”. AMSE Journal, France, 26 n 03, pp-27.
- (ii) Pravin Kumar Singh, D. Patel, S. B. Prasad (2015) “Effect of Auxiliary Vibrations on Microhardness Properties of MIG Welded MS Plate Joints” Journal of Advanced Research in Mechanical Engineering and Technology Vol. 2, page no. 18-23 ISSN. 2454-8650.
- (iii) Pravin Kumar Singh, D. Patel, S.B. Prasad, “Optimization of process parameters during vibratory welding technique using Taguchi’s analysis”. Elsevier, Science Direct (2016) 8, 399-402.
- (iv) Pravin Kumar Singh, D. Patel, S.B. Prasad (2016) “Development of vibratory welding technique and tensile properties investigation of shielded metal arc welded joints,” Indian Journal of science and technology, [DOI: 10.17485/ijst/2016/v9i35/92846](https://doi.org/10.17485/ijst/2016/v9i35/92846) ,Vol 9 (35)
- (v) Pravin Kumar Singh, S. Deepak Kumar, D. Patel, S.B. Prasad (2017) “Optimization of vibratory welding process parameters using Response surface methodology”. Springer,

Journal of Mechanical Science & Technology, 31(5) 2487-2495.

- (vi) Pravin Kumar Singh, D. Patel, S.B. Prasad (2017) "Investigation on the effect of vibrations on cooling behaviour and mechanical properties of SMAW Butt welded joints". U.P.B. Science Bulletin Series D. Vol. 79, Issue.
- (vii) Sanjay Kumar, Pravin Kumar Singh, D. Patel, S.B. Prasad, "Optimization of TIG welding process parameters using Taguchi's analysis and Response surface methodology". International Journal of Mechanical Engg. & Technology (IJMET), Vol. 8, Issue 11, Nov.2017, pp.932-941.
- (viii) Sanjay Kumar, Pravin Kumar Singh, D. Patel, S.B. Prasad (2017) "Optimization of welding parameters of GTAW using Response surface methodology". U.P.B. Science Bulletin Series D. Vol. 79, Issue. 3, 2017, pp.119-132.
- (ix) Sanjay Kumar, Pravin Kumar Singh, D. Patel, S.B. Prasad, "Experimental investigation and optimization of welding parameters on TIG welding of Stainless Steel AISI 304 plates". ICEMIT' 2017, Scopus Indexed Journal.
- (x) Pravin Kumar Singh, Dharmendra Patel, Shashi Bhushan Prasad (2018) "Investigation on the effect of auxiliary vibrations on microstructure and mechanical properties of SMAW butt welded joints" Journal of Engineering and materials science Vol. 25 ISBN/ISSN No. 1454-2358 Page no. 155-162.
- (xi) Sanjay kumar, Pravin Kumar singh, Dharmendra Patel, Shashi Bhushan Prasad, (2019)"Experimental investigation and optimization of welding parameters on TIG welding of stainless steel AISI 304 plates" Innovations in materials science and engineering Vol. 02 ISBN/ISSN No 978-981-132944-9 Page no91-102.
- (xii) Sunny Kumar, Tushar Banerjee [†], Dharmendra Patel (2020) "Tribological characteristics of electroless multilayer coating: A review" Materials Today: Proceedings" Vol. 33, part 8, pages 5678-5682.
- (xiii) Manimay Dev, Dinesh Kumar, D.Patel, Coordination Between Hospitals and Insurers in Developing Economies: An Interpretive Structural Modeling Approach - International Journal of Pharmaceutical and Healthcare Marketing. <https://doi.org/10.1108/IJPHM-10-2019-0068>, ISSN : 1750-6123 (2020).

9. Research Publications in National journals: 03

- (i) D.Patel, U.C. Ray, 2005, "Effect of Alternative process plans on design of cellular manufacturing system". Industrial Engineering Journal, India, XXXIV, No.7, pp-24
- (ii) D.Patel, Laljee Prasad, A.P. Burnwal, A.K.S. Choudary, 2001, "Design of Cellular manufacturing system in fuzzy environment". Applied Science Periodical, India, Vol. III, No. 2, p-88.
- (iii) Pravin Kumar Singh, D. Patel, S.B. Prasad, "Development of Vibratory welding technique and tensile properties of Shielded metal arc welded joints". Indian Journal of Science and Technology, vol. 9(35), Sept.2016.

10. Seminar/Conference Attended/Papers presented & published:

- (i) D.Patel, Laljee Prasad, A.P. Burnwal & A.K.S. Choudhary, "Cellular manufacturing system, an overview". *XXXIII Annual convention of ORSI, IIM Ahmedabad, Dec. 14-16, 2000, SD1.4, pp-63.*
- (ii) Laljee Prasad, D.Patel, A.P. Burnwal & A.K.S. Choudhary, "Preference modelling using Fuzzy sets in Cellular manufacturing system". *XXXIII Annual convention of ORSI, IIM Ahmedabad, Dec. 14-16, 2000, SA 3.3, pp-44.*
- (iii) D.Patel, Laljee Prasad, A.P. Burnwal & A.K.S. Choudhary, "Weighted additive fuzzy linear programming multi objective model for design of Cellular manufacturing system". *International conference on Recent advances in Mathematical sciences, IIT Kharagpur, Dec. 20-22, 2000, E-10.*
- (iv) D.Patel, Laljee Prasad, A.P. Burnwal & A.K.S. Choudhary, "Cellular manufacturing system using the Fuzzy mathematical programming". IPROMM-2000, Priyadarshini college of Engineering, Nagpur, Jan 19-20, 2001, P90L.
- (v) D.Patel, Laljee Prasad, A.P. Burnwal & A.K.S. Choudhary, "Need of Cellular manufacturing system in 21st century and its implementation". *IPROMM-2000, Priyadarshini college of Engineering, Nagpur, Jan 19-20, 2001, P91L.*

- (vi) D.Patel, Laljee Prasad, A.P. Burnwal & A.K.S. Choudhary, "A fuzzy programming approach to Cellular manufacturing system". *International conference on mathematical modelling. IIT Roorkee, Jan, 29-30, 2001, pp-27.*
- (vii) D.Patel & A.P. Burnwal, "Application of Maximin operator in Design of Cellular manufacturing system". *National conference on Computer Integrated Design & Manufacturing, Amrita Institute of Technology, Coimbatore, May 14-15, 2001, Proceeding of NCIDM, Allied Publishers, New Delhi, pp-41.*
- (viii) D.Patel, Laljee Prasad, A.P. Burnwal & A.K.S. Choudhary, "On Cellular manufacturing system". *All India Seminar on improvement of Production & Productivity in industrial coal belt, ISM Dhanbad, August-18, 2001, pp-41.*
- (ix) D.Patel & A.P. Burnwal, "Interactive Fuzzy model in Cellular manufacturing system design using various operators". *International conference on Optimization techniques & its application in Engineering and Technology, RBS. College, Agra, September 22-23, 2001, pp-34.*
- (x) D.Patel & A.P. Burnwal, "Weighted Maximin Preference modelling in design of Cellular manufacturing system". *International conference on Optimization techniques & its application in Engineering and Technology, RBS. College, Agra, September 22-23, 2001, pp-56.*
- (xi) A.K. Sinha, A.P. Burnwal & D.Patel, "Software metrics in fuzzy environment". *National Seminar on Advances in Mathematical, Statistical and Computational methods in Science and Technology, ISM Dhanbad, Nov. 29-30, 2001, no. 81, pp-39.*
- (xii) D.Patel, A.P. Burnwal & A.K.S. Choudhary, "Use of Mathematical modelling in Cellular manufacturing", *National Seminar on Advances in Mathematical, Statistical and Computational methods in Science and Technology, ISM Dhanbad, Nov. 29-30, 2001, no. 40, pp-19.*
- (xiii) A.P. Burnwal, H.S. Prasad & D.Patel, "Fuzzy approach to productivity Improvement". *National Seminar on Advances in Mathematical, Statistical and Computational methods in Science and Technology, ISM Dhanbad, Nov. 29-30, 2001, no. 81, pp-39.*
- (xiv) D.Patel, A.P. Burnwal & A.K.S. Choudhary, "Interactive Fuzzy Mathematical modelling in design of Multi objective Cellular manufacturing". *National Seminar on Advances in Mathematical, Statistical and Computational methods in Science and Technology, ISM Dhanbad, Nov. 29-30, 2001, no. 82, pp-231-236.*
- (xv) D.Patel & A.P. Burnwal." Fuzzy Goal programming model for Design of Cellular manufacturing system". *XXXIV Annual convention of ORSI and International*

conference on O.R. and National Development, Calcutta chapter, Jadavpur University Calcutta, Dec. 27-29, 2001, pp. 143-145.

- (xvi) D.Patel & A.P. Burnwal.” Use of Mathematical modelling in Design of Cellular manufacturing system”. *XXXIV Annual convention of ORSI and International conference on O.R. and National Development, Calcutta chapter, Jadavpur University Calcutta, Dec. 27-29, 2001, pp. 146-148.*
- (xvii) A.K. Sinha, D.Patel & A.P. Burnwal.” Application of Fuzzy set theory on Software metrics”. *XXXIV Annual convention of ORSI and International conference on O.R. and National Development, Calcutta chapter, Jadavpur University Calcutta, Dec. 27-29, 2001, pp. 219-221.*
- (xviii) D.Patel, A.K. Sinha, A.P. Burnwal, “A weighted fuzzy goal programming model for design of Cellular manufacturing system using Triangular membership function”. *Symposium on Information and Optimization, Calcutta University, Dec. 31st 2001- Jan. 1st, 2002, pp-7.*
- (xix) D.Patel, A.K. Sinha, A.P. Burnwal, “Mathematical modelling in design of Cellular manufacturing system- An overview”. *Symposium on Information and Optimization, Calcutta University, Dec. 31st 2001- Jan. 1st, 2002, pp-7.*
- (xx) D.Patel & U.C. Ray, “Nonlinear fuzzy programming approach for design of Cellular manufacturing system”. *ISME Dec. 30-31, 2003, IIT Roorkee.*
- (xxi) Pravin K. Singh, D.Patel, S.B. Prasad, “Effect of auxiliary vibrations on micro hardness properties of MIG welded MS plate joints”. *All India Seminar on status of welding in Research and advancement in analysis of welded structure, Feb. 20-21, 2015.*