

BIO-DATA Prof. J. S. DUREJA



1.	Name	: DR. JASMINDER SINGH DUREJA
2.	Designation	: PROFESSOR
3.	Department	: MECHANICAL ENGG.
4.	Date of Birth	: 29.09.1973
5.	Address for Correspondence	: Department of Mechanical Engg., Punjabi University, Patiala 147 002
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6	Areas of Specialization	: Hard Part Machining, Environment friendly machining: Machining with Minimum Quantity Lubrication,

7. Academic Qualifications:

S. No.	Course	Inst./Board/University	Year of Passing	% of marks/ C.G.P.A.	Division
1.	Matriculation	P.S.E.B. Mohali	1989	73.13%	1 st
2.	3 Yr. Diploma in Mech. Engg.	P.S.B.T.E & I.T. Chandigarh	1993	75.12%	1 st
3.	1 Yr. Post Diploma in Auto. Engg.	P.S.B.T.E.& I.T. Chandigarh	1994	72.44%	1 st
4.	Bachelor of Mechanical Engg.	Thapar Inst. of Engg. & Tech. Patiala (Deemed University)	1997	9.14/10 C.G.P.A. Equivalent to 82.26%	1 st with Distinction
5.	Master of Technology (Mech. Engg. with specialization in Production Engg.)	G.N.D.E.C. Ludhiana (Punjab Technical Uni., Jalandhar)	2003	68.13%	1 st
6.	Ph.D. (Mechanical Engg.)	Punjabi University, Patiala	April 1 st , 2010	Title: 'Performance Evaluation of Cutting tools for hard to machine Tool Steels' (Ph.D. in Faculty of Engineering & Technology)	

8. DETAILS OF EXPERIENCE

Designation	Institution/Department	Period of Service		Grade
		From	To	
Lecturer in Mech. Engg.	Thapar Polytechnic Patiala	Sept.11,1997	Feb.26, 2003	Rs.8000-13500
Lecturer Mech. Engg	G.N.D.E.C., Ludhiana	Feb. 27,2003 to Aug. 16,2005	Aug.16, 2005	Rs.8000-13500
Lecturer/Assistant Professor	University College of Engineering	17.08.2005	17.08.2005	Rs.15600-39100; AG.P. 6000
Lecturer/Assistant Professor Senior Scale	University College of Engineering	17.08.2005	Dec. 12, 2011	Rs.15600-39100; AG.P. 7000
Associate Professor (Open/Direct Selection)	University College of Engineering	13.12.2011	12.10.2014	Rs.37400-67000; AG.P. 9000
Professor	Department of Mechanical Engineering	13.10.2014	To date	Rs.37400-67000; AG.P. 9000
Lecturer/Assistant Professor	University College of Engineering	17.08.2005	17.08.2005	Rs.15600-39100; AG.P. 6000
Lecturer/Assistant Professor Senior Scale	University College of Engineering	17.08.2005	Dec. 12, 2011	Rs.15600-39100; AG.P. 7000
Associate Professor (Open/Direct Selection)	University College of Engineering	13.12.2011	12.10.2014	Rs.37400-67000; AG.P. 9000
Professor	Department of Mechanical Engineering	13.10.2014	To date	Rs.37400-67000; AG.P. 9000

9. Membership of Professional Bodies/Organisations

i) Life Member – Indian Society for Technical Education

10. Published Work (Please specify numbers only) :

- a. Research Papers i) National = 1
ii) International = 18
- b. Conference/Seminar Presentation = 41
- c. Books
 - i) Original: 01
 - ii) Edited:

11. Invited Talks : 10

12. Ph.D. Students guided/under guidance (Details):

S. No.	Name of the Student	Registered/Enrolled
1	Talwinder Singh	Registered
2	Pargat Singh	Registered
3	Ranvir Singh	Registered
4	Sukhjinder Singh	Registered
5	Iqbal Singh	Registered
6	Rupinder Singh	Registered
7	Jatinderal Singh	Enrolled
8	Prince Kapoor	Enrolled

13. M.Tech. Students Guided: 13

14. List of Papers/Courses taught at P.G. and U.G. Level

S. No.	Paper/Subject	Class
1	Applied Thermodynamics	U.G.
2	Power Plant Engineering	U.G.
3	Basic Thermodynamics	U.G.
4	Elements of Mechanical Engineering	U.G.
5	Heat and Mass Transfer	U.G.
6	Fluid Machines	U.G.
7	I.C. Engines	U.G.
8	Condition based Maintenance	P.G.

15. Technical Proficiency

1. Hard Machining
2. Environment friendly machining
3. I.C. Engine Testing

16. List of Papers Published

S.No.	Title	Journal
1	Design optimization of flank wear and surface roughness for CBN-TiN tools during dry hard turning of hot work die steel, special issue on dry machining-IJMMM-Inderscience Vol. 7, pp. 129 – 147, Nos. 1/2, 2010	International Journal of Machining and Machinability of Materials
2	Design optimization of cutting conditions and analysis of their effect on tool wear and surface roughness during hard turning of AISI-H11 steel with coated-mixed ceramic tool. - IMechE, Part B November 1, 2009 vol. 223 no. 11 1441-1453 (DOI: 10.1243/09544054JEM1498)	Proceedings of the Institution of Mechanical Engineers U.K., Part B , Journal of Engineering Manufacture
3	Wear mechanisms of coated mixed-ceramic tool during finish hard turning of hot tool die steel- IMechE, Part C, Vol. 224, Nos. 1, pp. 183-193, 2010 (DOI:10.1243/09544062JMES1691)	Proceedings of the Institution of Mechanical Engineers U.K., Part C , Journal Mechanical Engineering Science,
4	Investigating wear mechanisms of CBN and Mixed-Ceramic tools during finish hard turning of low-medium hardness AISI H11 steel, IJMMM- IJMMM-Inderscience Vol. 10, pp. 120 – 136, Nos. 1/2, 2011	International Journal of Machining and Machinability of Materials
5	Wear mechanisms of TiN coated CBN tool during finish hard turning of hot tool die steel. IMechE, Part B, Vol. 224, pp: 553-566, 2010 (DOI: 10.1243/09544054JEM1664)	Proceedings of the Institution of Mechanical Engineers U.K., Part B, Journal Engineering Manufacture,
6	Tool Wear, Chip formation and Work piece surface issues in CBN Hard Turning: A Review, Vol. 11 / No. 2, pp. 341-358, April 2010	International Journal of Precision Engineering and Manufacturing - Springer
7	TPM- a key strategy for productivity improvement in process industry, , Volume 6, Issue 1, pp:1-16, March 2011	Journal of Engineering Science and Technology
8.	Effect of tool geometry variation on finish turning – A Review , Volume 4, Issue 1, pp:1-13, 2011	Journal of Engineering Science and Technology Review
9.	Performance evaluation of CBN, coated carbide, cryogenically treated uncoated/coated carbide inserts in finish-turning of hardened steel- Volume 57, pp: 541–553, 2011 DOI: 10.1007/s00170-011-3320-8	The International Journal Of Advanced Manufacturing Technology
10	An approach to analyze logistic outsourcing problem in medium-scale organization by CFPR and VIKOR, Journal of Manufacturing Technology Management, 2012 , Vol. 23 Issue: 7, pp.885 - 898 Authors: Raman Kumar, Harwinder Singh, J. S. Dureja	Journal of Manufacturing Technology Management (Emerald Publishing House)-Special Issue
11	Optimization of tool wear during hard turning of AISI-H11 steel using TiN coated CBN-L tool - Volume 12, Numbers 1-2, August 17, 2012 , pp. 37-53(17) Authors: J. S. Dureja	International Journal of Machining and Machnability of Materials (IJMMM) Special Issue
12	Optimizing Flank Wear and Surface Roughness during Hard Turning of AISI D3 Steel by Taguchi and RSM methods, 16 Sep. 2014 . Vol. 2, No. 1, 767–783. DOI: http://dx.doi.org/10.1080/21693277.2014.955216 Authors: J. S. Dureja andRupinder Singh	Production & Manufacturing Research (Taylor & Francis)
13	Wear Analysis of Coated Carbide tools in Hard turning, Oct., 2014 , Vol.4, Issue-2, SPL.-2, pp:163-167 Authors: Manu Dogra and J. S. Dureja	International Journal of Research in Mechanical Engineering and Technology (Taylor & Francis)
14	Performance evaluation of coated carbide tool in machining of stainless steel (AISI 202) under minimum quantity lubrication (MQL) JS Dureja, R Singh, T Singh, P Singh, M Dogra Vol. 2, No. 2, pp. 123-129	International Journal of Precision Engineering and Manufacturing-Green Technology (SPRINGER)
15	A review of empirical modeling techniques to optimize machining parameters for hard turning applications J S Dureja, VK Gupta, Vishal S Sharma Manu Dogra Published online before print December 5, 2014, Doi: 10.1177/0954405414558731 Accepted October 13, 2014 (available online)	IMechE , Part B, Journal of Engineering Manufacture, 1-16 Impact Factor:0.954
16	A review of near dry machining/minimum quantity lubrication machining of difficult to machine alloys J S Dureja, Talwinder Singh, Pargat Singh, Harwinder Singh, Manu Dogra Published online-2017	International Journal of Machining and Machinability of Materials
17	Investigations for dimensional accuracy of Al alloy/Al-MMC developed by combining stir casting and ABS replica based investment casting R Singh, R Singh, JS Dureja, I Farina, F Fabbrocino Composites Part B: Engineering Vol.115,pp. 203-208 4 2017	Composites Part B: Engineering
18	Performance Evaluation of Milling of Inconel-625 Under Minimum Quantity Lubrication P Singh, J Singh, JS Dureja, T Singh, M Dogra, MS Bhatti Vol.16 (1), pp.61-68-1, 2016	Journal for Manufacturing Science and Production

Book Published:

Condition based maintenance of steam turbine in Thermal Power Plant, 2013, LAP LAMBERT Academic Publishing, Germany, ISBN-978- 3-659- 50430-3.

Author: J. S. Dureja,

Reviewer for International Journals

International Journal of Advanced Manufacturing Technology (**IJAMT-SPRINGER**); International Journal of Precision Engg. and Manufacture-green Technology (**IJPEM-GT: SPRINGER**); Journal of Materials and Manufacturing Processes (**Taylor & Francis**); Journal of Production and Manufacturing Research (**Taylor & Francis**); Journal of Engineering Manufacture **IMECHE, Part-B, SAGE**; International Journal of Machining and Machnability of Materials (**IJMMM-Indescience**); Journal of Measurement (**Elsevier**),

Member National Advisory Council for 3rd International Conference on Production and Industrial Engineering March 29-31, 2013, N.I.T., Jalandhar, India (CPIE-2013); International Conference on “Advancement & Futuristic Trends in Mechanical & Materials. Reviewer of P.T.U. Conferences.