# **BIO - DATA**



1.	Name	Dr. SUKHWANT SINGH BANWAIT		
2.	Postal Address	House No. 4165, Sector 68, SAS Nagar, Mohali -		
		160 062		
3.	(a) Telephone No.	Office (0172) 2759552		
	(b) E-mail Address	ssbmec@gmail.com		
	(c) Mobile Number	+919501588455		
4.	Date of Birth	18 <sup>th</sup> October 1960		
5.	Father's Name	S. Harbans Singh Banwait		
6.	Permanent residence	House No 4165, Sector 68, SAS Nagar, Mohali - 160062		
7.	Present Post held with Designation & name of	Professor, Department of Mechanical Engineering		
	the Organisation where employed	& Professor I/c M.E. & Ph.D. Programmes,		
		National Institute of Technical Teachers Training &		
		Research, Chandigarh - 160019		

## 8. ACADEMIC QUALIFICATIONS

Degree	Year	College/University	Divn.	% of Marks / CGPA	Remarks
Ph.D. (Mechanical Engineering)	1999	Thapar Institute of Engineering and Technology, Patiala, Punjab, INDIA			
M. Tech.(Design of Mechanical Equipment)	1985	Indian Institute of Technology, Delhi, INDIA	First	CGPA=7.88	
B.E. (Mechanical Engineering)	1983	Government Engineering College, Jabalpur, Madhya Pradesh	First	85 %	Gold Medalist
Higher Secondary	1978	Board of Secondary Education, Madhya Pradesh, Bhopal, INDIA	First	80 %	

### 9. TEACHING & PROFESSIONAL EXPERIENCE

Position Held	Name of Organisation	Pei	riod	Nature of Work
		From	То	
Professor (Mechanical Engineering)	NITTTR, Chandigarh	22/03/04	Till date	Teaching ME students, guiding Ph.D. research scholars, etc.
Asstt. Professor (Mechanical Engineering)	NITTTR, Chandigarh	19/06/91	21/03/04	Teaching ME students, conducting short term courses for technical teachers, etc.
Lecturer (Mech. Engg.)	Punjab Engineering College, Chandigarh	21/04/89	19/06/91	Teaching BE students.
Assistant Works Manager	Indian Ordnance Factories Service	02/05/87	18/04/89	Management of small arms production.
S.S.I. Officer	Punjab National Bank, Jalandhar	01/07/85	29/04/87	Assessment, guidance and monitoring of performance of SSI units.

### 10. RESEARCH EXPERIENCE

S.	Name of	Year of	Title of Thesis
No.	Student	Completion	
1	P T Kale	2011	Performance Evaluation of ERP System in Small and Medium Scale
			Indian Manufacturing Industries
2	Harinder Singh	2013	Investigations of Parameters for Surface Modifications of Dies using
	Sidhu		EDM Process
3	Sunil S. Baraskar	2013	Development of a Hybrid Model for Optimal selection of Electrical
			Discharge Machining Process parameters for Mould and Die Steel
			Materials
4	Ashish S.	2014	Multicriteria and Real-Time Scheduling Methodology for Controlling
	Bahendwar		FMS in Manufacturing Industries
5	Manish M.	2014	Development and Evaluation of Flexible Machine Controller for
	Pawade		Electrical Discharge Machining Process
6	Kanifnath R.	2013	Study of Thermo-hydrodynamic Performance of Multiple-Axial-
	Kadam		Groove Journal Bearing
7	Jayant B.	2013	Modelling and Control of Five Degree of Freedom Robot Manipulator
	Khurpade		under Parametric Variations
8	K . L. Meena	2013	An Experimental study of Non-Traditional Machining of Al/SiC-
			MMC's

### (b) Student Research – Masters Degrees

No.   Student   Completion   1985   Productivity Improvement in a Manufacturing Industry   2   Tarsem Chand   1995   Computer-Aided Design of Spur Gear   3   R R Jha   1995   Computer-Aided Analysis of Hydrodynamic Journal Bearing   4   Sudhir Hansrane   1996   Study, Analysis and Design of a Computerised Inventory System   Fei Pal Singh   1996   Status of Quality System in Industries   Fei Pal Singh   1997   Productivity Improvement and Plant Capacity Assessment - A Case Study at Eicher Demin, Parwanoo   Tapacity Assessment - A Case Study at Eicher Demin, Parwanoo   Continuous Improvement : A Case Study   Assembly Line Balancing : A Case Study   System   Tababu   1998   Assembly Line Balancing : A Case Study   System   Assembly Line Balancing : A Case Study   System   Analysis of Custom   Automobiles   Private   Productivity Improvement of a Rule Base Expert System for Fault Diagnosis in Automobiles   Automobi		1		
1 Ranjit Singh	S.	Name of	Year of	Title of Thesis
2 Tarsem Chand	No.		Completion	
3 R R Jha   1995   Computer Aided Analysis of Hydrodynamic Journal Bearing   4 Sudhir Hansrane   1996   Study, Analysis and Design of a Computerised Inventory System   5 Tej Pal Singh   1996   Status of Quality System in Industries   Productivity Improvement and Plant Capacity Assessment - A Case Study at Eicher Demm, Parwanoo   Capacity Assessment - A Case Study at Eicher Demm, Parwanoo   Continuous Improvement : A Case Study   R A Kembly Line Balancing : A Case Study   S P T Kale   1998   Assembly Line Balancing : A Case Study   Assembly Line Balancing : A Case Study   S N Awasthi   1999   Application of Ranked Positional Weight Method of Line Balancing in an Industry   Development of a Rule Base Expert System for Fault Diagnosis in Automobiles   2 P S Virdi   2000   Diesel Engine Design and Optimisation Software   An Experimental Analysis of Cutting Parameters On Microcrack Behaviour And Effect Of Surface Roughness in EDM Process   Analysis of Stock Replenishment System and Development of EOQ Model under Decreasing Cost Functions Via Geometric Programming - A Case Study   Acase Study	1	Ranjit Singh		
4         Sudhir Hansrane         1996         Study, Analysis and Design of a Computerised Inventory System           5         Tej Pal Singh         1996         Stutus of Quality System in Industries           6         M S Sajjad         1997         Productivity Improvement and Plant Capacity Assessment - A Case Study at Eicher Demm, Parvanoo           7         R A Kulkarni         1997         Capacity Planning, Capacity Control and Strategies Followed for Continuous Improvement : A Case Study           8         P T Kale         1998         Assembly Line Balancing: A Case Study           9         Hari Babu         1998         Computerised Planning and Scheduling System           10         S N Awasthi         1999         Application of Ranked Positional Weight Method of Line Balancing in an Industry           11         G K Gattani         1999         Development of a Rule Base Expert System for Fault Diagnosis in Automobiles           12         P S Virdi         2000         Diesel Engine Design and Optimisation Software           13         M V Mankar         2001         An Experimental Analysis of Cutting Parameters On Microcrack Behaviour And Effect Of Surface Roughness In EDM Process Mayais of Stock Replenishment System and Development of EOQ Model under Decreasing Cost Functions Via Geometric Programming - A Case Study           15         S P Kulkarni         2003         Development of Boiler Tube Coiling Machine		Tarsem Chand	1995	
S Tej Pal Singh	3		1995	
Productivity Improvement and Plant Capacity Assessment - A Case Study at Eicher Demm, Parwanoo Capacity Planning, Capacity Control and Strategies Followed for Capacity Planning, Capacity Control and Strategies Followed for Continuous Improvement : A Case Study   R A Kulkarni			1996	
Study at Eicher Demm, Parwanoo				
Continuous Improvement: A Case Study	6	M S Sajjad	1997	
8 P T Kale   1998   Assembly Line Balancing : A Case Study   9 Hari Babu   1998   Computerised Planning and Scheduling System   10 S N Awasthi   1999   Application of Ranked Positional Weight Method of Line Balancing in an Industry   Development of a Rule Base Expert System for Fault Diagnosis in Automobiles   12 P S Virdi   2000   Diesel Engine Design and Optimisation Software   13 M V Mankar   2001   An Experimental Analysis Of Cutting Parameters On Microcrack Behaviour And Effect Of Surface Roughness In EDM Process   Hamber of Land Process   Hamber of Land Process   Analysis of Stock Replenishment System and Development of EOQ Model under Decreasing Cost Functions Via Geometric Programming - A Case Study   S P Kulkarni   2003   Development of Boiler Tube Coiling Machine   Siddappa C   Studies on the Dry Sliding Wear Behavior of Hypereutectic Aluminum-Silicon Alloys   Bradar   S I Ahmad Qadri   2007   Defect Analysis and Simulation Studies for Improving the Quality of Grey Iron Casting   S I Ahmad Qadri   2007   A Critical Study and Analysis of Process Parameters of Selective Laser Sintering Rapid Prototyping   Study and Development of Computerised Operation and Maintenance System for Public Transport Services   Study and Development of Computerised Operation and Maintenance System for Public Transport Services   Study and Analysis of Inventory Management System at M/s. Chinar Gupta   Study and Analysis of Inventory Management System at M/s. Chinar Syntex Limited   Study and Analysis of Inventory Management System at M/s. Chinar Syntex Limited   Study and Analysis of Inventory Management System at M/s. Chinar Syntex Limited   Sunit Kumar   2008   Experimental Investigation on Heat Treatment of Die Steels   Saha   Sunit Kumar   2008   Experimental Investigation of Microstructure, Mechanical & Weat Properties of LM-25 Alloy   Performance Measures and Practices of Supply Chain in Manufacturing   Performance Measures and Practices of Supply Chain in Manufacturing   Sunda Properties of Supply Chain in Manufactur	7	R A Kulkarni	1997	Capacity Planning, Capacity Control and Strategies Followed for
9 Hari Babu 1998 Computerised Planning and Scheduling System 10 S N Awasthi 1999 Application of Ranked Positional Weight Method of Line Balancing in an Industry 11 G K Gattani 1999 Development of a Rule Base Expert System for Fault Diagnosis in Automobiles 12 P S Virdi 2000 Diesel Engine Design and Optimisation Software 13 M V Mankar 2001 An Experimental Analysis Of Cutting Parameters On Microcrack Behaviour And Effect Of Surface Roughness In EDM Process 14 Mukesh Kataria 2002 Analysis of Stock Replenishment System and Development of EOQ Model under Decreasing Cost Functions Via Geometric Programming - A Case Study 15 S P Kulkarni 2003 Development of Boiler Tube Coiling Machine 16 Siddappa C 2007 Studies on the Dry Sliding Wear Behavior of Hypereutectic Aluminum-Silicon Alloys 17 V Elisha 2007 Defect Analysis and Simulation Studies for Improving the Quality of Grey Iron Casting 18 S I Ahmad Qadri 2007 A Critical Study and Analysis of Process Parameters of Selective Laser Sintering Rapid Prototyping 19 Amulya Burman 2008 Study and Development of Computerised Operation and Maintenance System for Public Transport Services 20 Bharat Sanga 2008 Study and Development of Computerised Operation and Mintenance System for Public Transport Services 21 Chinmoy Saha 2008 Failure Analysis of Worn Wheel in Coke Processing Plant at IISCO Steel Plant, Burnpur 22 Manoj Kumar 2008 Study and Analysis of Inventory Management System at M/s. Chinat Syntex Limited 23 Manoj Kumar 2008 Experimental Investigation on Heat Treatment of Die Steels 24 Sunil Kumar 2008 Experimental Investigation on Heat Treatment of Die Steels 25 R M Patted 2008 Experimental Investigations of Microstructure, Mechanical & Wear Properties of LM-25 Alloy 27 S J Gorane 2008 Performance Measures and Practices of Supply Chain in Manufacturing	8	P T Kale	1998	
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11 G K Gattani   1999		1		
Development of a Rule Base Expert System for Fault Diagnosis in Automobiles	10	D 1 1 1 Wasan	1,,,,	
13 M V Mankar   2001	11	G K Gattani	1999	Development of a Rule Base Expert System for Fault Diagnosis in
13 M V Mankar   2001	12	P S Virdi	2000	Diesel Engine Design and Optimisation Software
Mukesh Kataria   2002   Analysis of Stock Replenishment System and Development of EOQ Model under Decreasing Cost Functions Via Geometric Programming - A Case Study   Development of Boiler Tube Coiling Machine		M V Mankar	2001	An Experimental Analysis Of Cutting Parameters On Microcrack
Development of Boiler Tube Coiling Machine	14	Mukesh Kataria	2002	Analysis of Stock Replenishment System and Development of EOQ Model under Decreasing Cost Functions Via Geometric Programming
Siddappa C   Biradar   Studies on the Dry Sliding Wear Behavior of Hypereutectic Aluminum-Silicon Alloys	15	S P Kulkarni	2003	
17		Siddappa C	2007	Studies on the Dry Sliding Wear Behavior of Hypereutectic
S I Ahmad Qadri   2007   A Critical Study and Analysis of Process Parameters of Selective Laser Sintering Rapid Prototyping	17		2007	Defect Analysis and Simulation Studies for Improving the Quality of
19 Amulya Burman 2008 Study and Development of Computerised Operation and Maintenance System for Public Transport Services  20 Bharat Sanga 2008 Study of Critical Welding Parameters in MIG Welding Operation at M/s. Hema Engineering Industries Limited  21 Chinmoy Saha 2008 Failure Analysis of Worn Wheel in Coke Processing Plant at IISCO Steel Plant, Burnpur  22 Manoj Kumar 2008 Study and Analysis of Inventory Management System at M/s. Chinar Syntex Limited  23 Manoj Kumar 2008 Parametric Study of Spot Welding Operation : A Case Study Mishra  24 Sunil Kumar 2008 Experimental Investigation on Heat Treatment of Die Steels  25 R M Patted 2008 Experimental Studies on the Effect of Addition of Mg and Sc on Mechanical and Tribological Properties of Aluminium  26 M B Dodamani 2008 Experimental Investigations of Microstructure, Mechanical & Wear Properties of LM-25 Alloy  27 S J Gorane 2008 Performance Measures and Practices of Supply Chain in Manufacturing	18	S I Ahmad Qadri	2007	A Critical Study and Analysis of Process Parameters of Selective Laser
20	19	Amulya Burman	2008	Study and Development of Computerised Operation and Maintenance
21   Chinmoy Saha   2008   Failure Analysis of Worn Wheel in Coke Processing Plant at IISCO Steel Plant, Burnpur	20	Bharat Sanga	2008	Study of Critical Welding Parameters in MIG Welding Operation at
22Manoj Kumar Gupta2008Study and Analysis of Inventory Management System at M/s. Chinar Syntex Limited23Manoj Kumar Mishra2008Parametric Study of Spot Welding Operation : A Case Study24Sunil Kumar 	21	Chinmoy Saha	2008	Failure Analysis of Worn Wheel in Coke Processing Plant at IISCO
23       Manoj Kumar Mishra       2008       Parametric Study of Spot Welding Operation : A Case Study         24       Sunil Kumar Saha       2008       Experimental Investigation on Heat Treatment of Die Steels         25       R M Patted       2008       Experimental Studies on the Effect of Addition of Mg and Sc on Mechanical and Tribological Properties of Aluminium         26       M B Dodamani       2008       Experimental Investigations of Microstructure, Mechanical & Wear Properties of LM-25 Alloy         27       S J Gorane       2008       Performance Measures and Practices of Supply Chain in Manufacturing	22		2008	Study and Analysis of Inventory Management System at M/s. Chinar
24     Sunil Kumar Saha     2008     Experimental Investigation on Heat Treatment of Die Steels       25     R M Patted     2008     Experimental Studies on the Effect of Addition of Mg and Sc on Mechanical and Tribological Properties of Aluminium       26     M B Dodamani     2008     Experimental Investigations of Microstructure, Mechanical & Wear Properties of LM-25 Alloy       27     S J Gorane     2008     Performance Measures and Practices of Supply Chain in Manufacturing	23	Manoj Kumar	2008	
25 R M Patted 2008 Experimental Studies on the Effect of Addition of Mg and Sc on Mechanical and Tribological Properties of Aluminium  26 M B Dodamani 2008 Experimental Investigations of Microstructure, Mechanical & Wear Properties of LM-25 Alloy  27 S J Gorane 2008 Performance Measures and Practices of Supply Chain in Manufacturing	24	Sunil Kumar	2008	Experimental Investigation on Heat Treatment of Die Steels
26     M B Dodamani     2008     Experimental Investigations of Microstructure, Mechanical & Wear Properties of LM-25 Alloy       27     S J Gorane     2008     Performance Measures and Practices of Supply Chain in Manufacturing	25		2008	Experimental Studies on the Effect of Addition of Mg and Sc on Mechanical and Tribological Properties of Aluminium
27 S J Gorane 2008 Performance Measures and Practices of Supply Chain in Manufacturing	26	M B Dodamani	2008	Experimental Investigations of Microstructure, Mechanical & Wear
modules	27	S J Gorane	2008	Performance Measures and Practices of Supply Chain in Manufacturing Industries

28	Sanjeev Gupta	2009	A Comparative Analysis of JIT & Non-JIT Industries
29	Deepak Lamba	2009	Study and Analysis of Capacity Utilization, Process Planning and
2)	Deepak Lamoa	2007	Production Control in Machining Processes
30	Nand Gopal	2009	Defect Analysis and Fixture Modification at M/s. Bubber Industries,
30	Tiana Copai	2007	Panchkula
31	S G Venkatesha	2009	Selection of Process Parameters for Optimum Weld Pool Geometry in
J.	2 C CIRCUIONIA	2007	TIG Welding of Tubular Structures
32	Lakshminara-	2009	Study and Failure Analysis of ALH Collector Gear at HAL, Bangalore
	yana		and the second s
33	Gopinatha K	2009	Critical Success Factors in Implementation of ERP : A Case Study
34	B S Vasuki	2009	Implementation of Lean Manufacturing System : A Case Study
35	Sandeep Handa	2009	Design of a Computerised System for Calibration of Gauges and
			Auditing of Tackles
36	S K Patra	2009	Computerised Preventive Maintenance Scheduling at M/s. New
			Holland Tractors (India) Private Limited
37	Sukhjit Singh	2009	A Computerized Knowledge Based System for Spur Gear Design
	Kang		
38	Jasbir Singh	2009	Assembly Line Balancing : A Case Study
39	Doddaiah S V	2009	Study and Analysis of Enterprise Resource Planning System in Select
			Manufacturing Industries
40	Subhash Chand	2010	Study of Quality Improvement Analysis at NEI Limited, Gunsi
	Gupta		
41	Jitender Anand	2010	Implementation of Total Productive Maintenance
42	Munish Mehta	2010	Reliability Analysis of Various Complex System in a Sugar Mill
43	B D Gidwani	2010	Study and Analysis of Maintenance Strategy for M/s. Bansiwal Iron
43	D D Glawami	2010	and Steel Rolling Mill
44	Jai Prakash	2010	Productivity Improvement in Tractor Assembly Line by Reducing 3M's
45	Peeyush Vats	2010	Study and Analysis of Journal Bearing Failure at M/s. Kaithal
73	1 ccyusii vats	2010	Cooperative Sugar Mills Limited
46	Abinay Agrawal	2010	Study and Analysis of Inventory Management System of M/s.
	1 10 may 1 1gramar	2010	Morgardshammar India Limited
47	Ram Karan	2010	Defect Analysis of Insulator Metal Castings at M/s. Jaidev Cast Alloys,
• •	Yadav		Sri Ganga Nagar
48	Krishan Kumar	2010	Design and Fabrication of Universal Fixture at M/s. Bubber Industries,
			Panchkula
49	Chander Shekhar	2011	Design & Development of an Assembly Line at M/s Agriking Tractors
			and Equipments Limited, Solan
50	Satbir Singh	2011	Productivity Improvement & Analysis at Ms. APS Industries
51	Satish Kumar	2012	Process Paramter Optimisation of Welded Joints in Production of Pipes
52	Irshad Ali	2012	Experimental Study of Wearing Pattern of Rotavator Blades Treated
			with different Wear Resistance Process
53	Kunal Verma	2013	
33	Kullai Velilla	2013	Experimental Investigations of Magnetic Abrasive Particles on
			Machining of Stainless Steel

## 11. PUBLICATIONS

### (a) Papers Published in Journals

S.	Year of	Title of Paper	Name of the	Name of the
No.	Publication		Journal, Volume,	Publisher
			page numbers	
1	1998	Study of Thermal Boundary Conditions for	Tribology International, Vol. 31/6, pp.	Elsevier, UK
		a Plain Journal Bearing	289-296.	
2	2000	Effect of Misalignment on THD Analysis	Journal of the Institution of Engineers	Institution of
		of Elliptical Journal Bearings	(India), Vol. 81, pp 93-101.	Engineers (India)
3	2006	A Comparative Performance Study of Non-	Journal of the Institution of Engineers	Institution of
		circular Two-Lobe and Three-Lobe Journal	(India), Vol. 86, pp 202-210.	Engineers (India)
		Bearings		
4	2008	Enterprise Resource Planning –	Journal of Engineering and	NITTTR, Chandigarh
		Implementation, Assessment and	Technology Education, Vol. 2, No. 2,	
		Development	pp. 16-22.	

5	2010	Systematic Failure Mode Effect Analysis :	The Indian Journal of Technical	Indian Society for
		Applications and Weak Spots	Education, Vol. 33, No. 3, pp. 58-69.	Technical
				Education, New
				Delhi.
6	2010	ERP benefits and Critical Success Factors:	Journal of Emerging Tech. in Mech.	Noorul Islam
		A Case Study	Science & Engg., Vol. 1, No. 2, pp.	University,
			41-51.	Thuckalay.
7	2010	Performance evaluation of ERP	Journal of Manufacturing Technology	Emerald Group
		implementation in Indian SMEs	Management, Vol. 21, No. 6, pp. 758-	Publishing Limited,
		•	780.	UK.
8	2011	Multi-objective Optimisation of Electrical	International Journal of Materials	Inderscience
		Discharge Machining Process using	Engineering Innovation, Vol. 2, No.	Enterprises Limited,
		Derringer's Desirability Function Approach	3/4, pp. 203-221.	UK.
9	2011	Evaluation of ERP implementation in an	Global Journal of E-Business &	IIT, Delhi
		Indian Company : A Case Study	Knowledge Management,	
10	2011	Mathematical Modelling of Electrical	International Journal of Scientific and	Research Publication
		Discharge Machining Process through	Engineering Research, Vol. 2, Issue	IJSER, USA
		Response Surface Methodology	11, Nov. 2011, pp. 1-10.	

## (b) Papers Accepted for Publication in Journals

S.	Year of	Title of Paper	Name of the Journal, Volume/ page	Name of the
No.	Publication		numbers,	Publisher
1	2013	Multi-Objective Optimization of Electrical Discharge Machining Process Using Hybrid Method	Journal of Materials and Manufacturing Processes, June 2013.	Taylor and Francis, UK

## (c) Papers Published in Proceedings of International Conferences

S.	Year of	Title of Paper	Name and Place of Conference
No	Publication		
1	Nov.	A Case Study of Continuous Improvement : An Essential	International Conference on Precision
	1995	Element of Total Quality Management	Engineering, Singapore
2	Feb.	Status of Quality System in ISO Certified Companies	7 <sup>th</sup> World Congress on Total Quality
	1997		Management, New Delhi
3	Aug.	Status of ISO 9000 Certified Industries in Northern India	International Conference on Quality
	1997		Engineering & Management, Coimbatore
4	June	Effect of Operating Parameters on Static and Dynamic	8 <sup>th</sup> International Conference in Tribology,
	1998	Characteristics of Journal Bearing under THD Conditions	Denmark.
5	Oct.	THD Analysis of Misaligned Plain Journal Bearing	First Asia International Conference on
	1998		Tribology, China
6	Dec.	THD Analysis of Misaligned Two-Axial-Groove Journal	First International Conference on Fluid
	1998	Bearing	Mechanics and Fluid Power, New Delhi.
7	April	A Study of THD Analysis of Two-Axial-Groove Journal	9 <sup>th</sup> International Conference on Computational
	1999	Bearing	Methods and Experimental Measurements,
			Italy.
8	June	A Study of Thermohydrodynamic Analysis of Misaligned	9 <sup>th</sup> Nordic Symposium on Tribology, Finland.
	2000	Three-Lobe Journal Bearing	
9	Nov.	A Comparative Study of Some Vital Parameters of	International Tribology Conference, Japan.
	2000	Misaligned Journal Bearings under THD Condition	
10	June	Thermohydrodynamic Analysis of Two-Axial-Groove	10 <sup>th</sup> International Conference on
	2001	Journal Bearing	Computational Methods & Experimental
			Measurements, Spain.
11	April	Practical Constraints to Key Performance Factors for	3 <sup>rd</sup> International Conference on Industrial
	2002	Hydrodynamic Lubrication of Diesel Engine Journal	Tribology, India.
		Bearings	
12	June	A Stability Analysis of Misaligned Hydrodynamic Journal	10 <sup>th</sup> Nordic Symposium on Tribology, Sweden.
	2002	Bearings	
13	Oct.	Performance Evaluation of Enterprise Resource Planning	Internal conference on Advances in
	2007	Systems : A Brief Review	Manufacturing Engineering, Manipal.
14	Oct.	Effect of Titanium and Phosphorous on the Wear	International Symposium on Advanced
	2007	Behaviour of Hypereutectic Aluminium – Silicon Alloys	Materials, Bagalkot.
15	Dec.	Review of Key Performance Indicators of evaluation of	Annual International Conference of the Society
	2007	Enterprise Resource Planning Systems in Small and	of Operation Management, Pune.
		Medium Enterprises	45
16	Dec.	Enterprise Resource Planning in Indian SMEs: Issues and	6 <sup>th</sup> International Conference on E-governance,
	2008	Challenges	IIT Delhi.
17	Dec.	Benefits of the Enterprise Resource Planning in Indian	International Conference of Society of
	2009	SMEs	Operation Management, IIT Chennai.
18	July	Evaluation of ERP implementation in an Indian	Annual Conference of Global Institute of
	2010	Company : A Case Study	Flexible Systems Management, Japan.

19	Oct.	Impact of ERP on performance of SMEs: A Study of	International Conference on Advanced
	2010	Indian Company	Management Perspectives in Asia, China.
20	Nov.	An Investigation of Enterprise Resource Planning	ASME 2010 International Mechanical
	2010	Implementation : Empirical Evidence from Indian	Engineering Congress and Exposition, Canada.
		Companies	
21	Dec.	Modeling and Simulation of a 2-link 3-DOF Robotic	2 <sup>nd</sup> International Conference on Production and
	2010	Manipulator using Vector Loop method	Industrial Engineering, Jalandhar.
22	June	An Impact of ERP on performance of Small and Medium	ASME 2011 International Manufacturing
	2011	Enterprises : A Study of Indian Company	Science & Engineering Conference, USA.
23	June	Mathematical Modeling of Electrical Discharge	ASME 2011 International Manufacturing
	2011	Machining Process through Response Surface	Science & Engineering Conference, USA.
		Methodology	
24	Nov.	A Review of Fuzzy Logic Based Control of Robotic	ASME 2011 International Mechanical
	2011	Manipulators	Engineering Congress & Exposition, USA.
25	June	Application of Multiple Regression and Adaptive Neuro-	ASME 2012 International Manufacturing
	2012	Fuzzy Inference System for Prediction of Surface	Science & Engineering Conference, USA.
		Roughness in EDM	

## (d) Papers in Published in National Conferences

Sr.	Year of	Title of Paper	Name and Place of Conference
No	Publication		Light Main In Co. 11 Co. 12
1	Nov. 1995	Computerisation in Industry : A Case Study	10 <sup>th</sup> National Convention of Computer Engineers, Lucknow
2	Nov. 1995	Misalignment in Hydrodynamic Journal Bearings : The Problems	11 <sup>th</sup> National Convention of Mechanical Engineers, Bhopal
3	Nov.	Analysis of Pressure Distribution in Hydrodynamic	11 <sup>th</sup> National Convention of Mechanical
	1995	Journal Bearing using different types of Finite Elements	Engineers, Bhopal
4	March 1996	Computer Based Quality Information System : A Necessity for Quality Management	National Seminar on Total Quality Management, PEC, Chandigarh
5	March 1996	Education: The Neglected Aspect in Quality Management	National Seminar on Total Quality Management, PEC, Chandigarh
6	July 1998	Assembly Line Balancing : A Case Study	All India Seminar on Design of Production Systems – New Concepts, Bhubaneshwar
7	Oct. 1999	Changing Scenario of Human Workers in Automated Factories	National Conference on Industrial Human Resource Development, NITTTR, Chandigarh
8	Sep. 2000	A Database Design and Optimisation Approach for Diesel Engines	National Convention of Mechanical Engineers, IIT Roorkee.
9	Dec. 2000	A Critical Analysis of Non-circular Two-Lobe and Three- Lobe Journal Bearings	27 <sup>th</sup> National Conference on Fluid Mechanics & Fluid Power, Palghat.
10	Feb. 2001	An experimental Analysis of Cutting Parameters on Microcrack behaviour of die Steel with Copper electrode and Graphite electrode in EDM Process	National Seminar on Modern Methods for Economic and Quality Production, Nanded.
11	Dec. 2001	Hydrodynamic Lubrication of Diesel Engine Journal Bearings – Practical Limits to Key Performance Factors	28 <sup>th</sup> National Conference on Fluid Mechanics & Fluid Power, Chandigarh.
12	Dec. 2001	Computer-Aided Instructions: The Present Status and Future Strategies	16 <sup>th</sup> National Convention of Computer Engineers, Patna
13	Sep. 2002	Data-Base Design Approach for Journal Bearings of Diesel Engines	17 <sup>th</sup> National Convention of Production Engineers, Chennai,
14	Nov. 2005	A Review of Automated Manufacturing System	National Conference on Advances in Manufacturing Technology, NITTTR, Chandigarh
15	March 2008	A Study on Surface Quality during Machining of OHNS Dies Steel by EDM	2 <sup>nd</sup> National Conference on Advances in Manufacturing Technology, NITTTR, Chandigarh
16	March 2008	Enterprise Resource Planning - A Comparative Analysis of its Implementation Status	2 <sup>nd</sup> National Conference on Advances in Manufacturing Technology, NITTTR, Chandigarh
17	March 2008	Review of Performance Measures & Practices of Supply Chain in Manufacturing Process industries	2 <sup>nd</sup> National Conference on Advances in Manufacturing Technology, NITTTR, Chandigarh
18	March 2008	Experimental Studies on the Microstructure, Mechanical and Tribological properties of LM-25 alloy	2 <sup>nd</sup> National Conference on Advances in Manufacturing Technology, NITTTR, Chandigarh
19	March 2008	Experimental Studies on Effect of addition of Mg and Sc on Mechanical and Tribological properties of Aluminium	2 <sup>nd</sup> National Conference on Advances in Manufacturing Technology, NITTTR, Chandigarh
20	March 2012	Design and Development of Assembly Line using Ranked Positional Weight Technique	National Conference on Advances in Manufacturing Technology, NITTTR, Chandigarh

21	March	Improvement and Analysis of Productivity	National	Conference	on	Advances	in
	2012		Manufact	Manufacturing Technolog		y, NITT	TR,
			Chandiga	rh			

#### (e) Books

#### Published

S. No.	Name of Book	Year of	Name of Publisher
		Publication	
1	Text book on "Design and Manufacturing"	2003	Birla Publications, Delhi
2	Refrigerant and Psychrometric Charts & Tables	2001	Birla Publications, Delhi
3	Continuing Education Module on "Engineering Design"	1999	ISTE, New Delhi

#### 12. INDUSTRIAL EXPERIENCE

S. No.	Period	Organisation	Description of Work and Responsibilities
1	1 <sup>st</sup> July 1985 to 29 <sup>th</sup>	Punjab National Bank,	SSI Officer: Assessing technical & economical viability of
	April 1987	Jalandhar	SSI units and monitoring them.
2	2 <sup>nd</sup> May 1987 to 18 <sup>th</sup>	Indian Ordnance	Assistant Works Manager : Monitoring production of small
	April 1989	Factories Services	arms.

#### 13. ADMINISTRATIVE EXPERIENCE

S. No.	Period	Organisation	Designation	Nature of Responsibility	
1	April 1996 to	NITTTR,	Member, Departmental	As member ensuring promotion of	
	March 1999 Chandigarh		Promotion Committee	employees as per GOI norms	
2	April 1999 to	NITTTR,	Hostel Warden	Looking after institute hostel and	
	March 2002	Chandigarh		canteen	
3	April 2002 to	NITTTR,	Professor Incharge, Institute	Looking after vehicle allocation &	
	March 2010	Chandigarh	Vehicles	maintenance of institute vehicles	
4	13 <sup>th</sup> August	NITTTR,	Professor & Head,	Looking after the routine duties of the	
	2007 to 30 <sup>th</sup>	Chandigarh	Department of Mechanical	department	
	June 2009	Engineering			
5	8 <sup>th</sup> May 2009 to	NITTTR,	Professor & Head,	Looking after the routine duties of the	
20 <sup>th</sup> October		Chandigarh	Information Management &	department	
	2010		Coordination Unit		
6	9 <sup>th</sup> July 2010 to	NITTTR,	Professor & Head,	Looking after the routine duties of the	
	20 <sup>th</sup> October	Chandigarh	Department of Mechanical	department	
	2010		Engineering		
7	18 <sup>th</sup> October	NITTTR,	Professor Incharge,	Coordinating liaison work with Panjab	
	2010	Chandigarh	M.E. & Ph.D. Programmes	University, Chandigarh and ensuring	
	to			the implementation of rules and	
	till date			regulations of University	

### 14. DETAILS OF FOREIGN VISITS

S. No.	Purpose	Place, Country	Duration
1	Attended International Conference on Integrating Sustainable	Bangkok, Thailand	10 <sup>th</sup> August 2005 to
	Development issues into TVET : Poverty Alleviation & Skills		13 <sup>th</sup> August 2005
	for Employability, Citizenship and Conservation		
2	Attended ASME 2012 International Manufacturing Science and	University of Notre	4 <sup>th</sup> June 2012 to
	Engineering Conference	Dame, IN, USA	8 <sup>th</sup> June 2012

#### 15. MEMBERSHIP OF PROFESSIONAL BODIES / SOCIETIES

- **Fellow** of the Institution of Engineers (India).
- ➤ **Member** of Institute of Standards Engineers (India).
- ➤ Life Member of the National Society of Fluid Mechanics and Fluid Power(India).
- Life Member of the Indian Society for Technical Education.
- ➤ **Member** of American Society of Mechanical Engineers (USA).

#### 16. AWARDS, HONOURS AND RECOGNITIONS

#### A. Academic Distinctions / Honours

- Expert Member, National Board of Accreditation, All India Council For Technical Education, New Delhi,
- Research paper reviewer, Global Journal of Flexible Systems Management, India.
- **Reviewer** of research papers presented at International Conference on Quality Engineering and Management, 1997, Coimbatore.
- ➤ <u>Chaired</u> one session on CAM at XVI National Convention of Mechanical Engineers and National Seminar, 2000, IIT Roorkee.
- Member of Evaluation committee for Dr. M.G. Deshpande memorial prize for best research paper presented at 27<sup>th</sup> National Conference on Fluid Mechanics & Fluid Power, 2000, Palghat.
- <u>Referee</u> of research papers presented at International Conference on Knowledge Based Computer Systems, 2002, NCST, Mumbai.
- ➤ <u>Member Advisory Committee</u>, All India Seminar on "Emerging Trends in Mechanical Engineering", March 2005 at National Institute of Technology, Kurukshetra.
- **Paper reviewer** of Journal of Engineering and Technology Education, NITTTR, Chandigarh (from 2006 onwards).
- Paper reviewer of International Journal of Business and Systems Research, Inderscience Publishers, UK(2009).
- **Paper reviewer** of International Journal of Manufacturing Technology Management, Inderscience Publishers, UK(2010).
- Member Advisory Committee, National Conference on "Recent Advances in Electrical Engineering and Energy Systems" at Institute of Technology and Management, Bhilwara, Rajasthan, September 2010.
- Paper reviewer of International Journal of Enterprise Information Systems, Taylor and Francis Publishers, UK(2011).

#### B. Medals / Awards

- Recipient of Shri Murli Manohar Agrawal Memorial Gold Medal from Rani Durgavati Vishwavidyalaya, Jabalpur, January 1984.
- ➤ <u>Recipient</u> of Late Chandra Shekhar Belapurkar Memorial <u>Gold Medal</u> from Rani Durgavati Vishwavidyalaya, Jabalpur, January 1984.
- Nominated for "Bharat Jyoti Award" by India International Friendship Society, New Delhi (2001).
- Nominated for "Best Citizens of India Award" by International Publishing House, New Delhi (2001).
- **Recipient** of "Certificate of Merit" by the Institution of Engineers (India) for the research paper published in Journal of the Institution of Engineers (India), December 2001.
- **Recipient** of **ISTE Baroda Chapter Award 2011** by the Indian Society for Technical Education for the research paper published in the Indian Journal of Technical Education, September 2010.

#### C. Expertise

- > State level <u>expert</u> committee member for establishment of new diploma level technical institutions in Panjab and Haryana State(since 2002).
- Expert member, Board of Studies in M.E. (Manufacturing Technology), Panjab University, Chandigarh (since 1992).
- Expert member, National Board of Accreditation, All India Council For Technical Education, New Delhi (since 2006).
- Member, Research Board in Engineering & Technology, Panjab University, Chandigarh (since 2006).
- ▶ <u>Member</u>, Research Degree Committee in Mechanical Engineering, Panjab University, Chandigarh (since 2006).
- ▶ <u>Member</u>, Academic Council, National Institute of Technical Teachers Training & Research, Sector 26, Chandigarh (since 2007).
- Expert Member, Academic Council, Indo Swiss Training Centre, CSIO, Sector 30, Chandigarh (since 2009).
- **Organizer** of National Conferences / Seminars at NITTTR, Chandigarh.
- > Selection Committee **expert member** for Ph.D. candidates under AICTE-QIP(Polytechnic) scheme.
- Selection committee <u>expert member</u> for lecturers in Mechanical Engineering at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib.
- Selection committee **expert member** for lecturer in Mechanical Engineering at Chandigarh College of Engineering and Technology, Chandigarh.
- Expert member of UPSC, New Delhi for the development of item bank in Mechanical Engineering Aptitude.
- Expert member of NPIU/ COFMOW in preparation of specifications and purchase of mechanical engineering equipment for polytechnic under World Bank project.
- **Expert member** selection committee for engaging Research Fellows / Project Assistants / Drivers at CSIO, Chandigarh.
- Expert member selection committee for recruitment of instructors / drivers in Department of Industrial Training and Vocational Education, Haryana.

- Expert member selection committee for recruitment of Lecturers in Department of Technical Education, Haryana.
- Organising member of committee for conduct of technical teacher recruitment test for Government of Haryana(2011).
- Selection committee <u>expert member</u> for Assistant Professor in Mechanical Engineering / Production Engineering at PEC University of Technology, Chandigarh(2011).

Date : 31<sup>st</sup> January 2013 Signature

Place : Chandigarh