



		<b>Research : 10Years</b>	
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		<b>Others :</b>		
6.	<b>Area of Specializations</b>	Composite Materials		
7.	<b>Subjects</b>  <b>Teaching at</b>	<b>(a) Graduate Level</b>		Strength of Materials, Machine Design, Total Quality Management, Manufacturing Practice, Operations Management, and Computer Aided Engineering Graphics. Engg Drawing
		<b>(b) Post Graduate Level</b>		Quality & Reliability, Management Information Systems, Entrepreneurship, Operations Management, Reliability Management, Advanced Machine Design.
8.	<b>Total Number of Research Publications (Annexure-A)</b>	<b>Published</b>	47	<b>Communicated</b>



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9.	<b>No. of Students Guided</b>	
	<b>Master's</b>	12
	<b>Ph.D</b>	8 (Registered)
10.	<b>Academic Achievements and Awards.</b>	Published Four Books



11.	<b>Projects Carried out</b>	one	
12.	<b>Projects in Hand</b>	NII	
13.	<b>Applied Project</b>	NA	

15.	<b>Short-Term Courses Organised as a faculty</b>	6	
16.	<b>Short-Term Courses Attended</b>	37	
17.	<b>Faculty Development Programmes organized in the Institute</b>	(List is attached as Annexure-B)	
18.	<b>Membership of professional bodies:</b>  <b>Life Member of ISTE</b>		
19.	<b>Main Extra-Curricular Activities organized :Annexure-C NA</b>		
20.	<b>Main Curricular and Co-Curricular Activities Organised: NA Annexure-D</b>		





## Annexure-A

### LIST OF PUBLICATIONS

#### (A) International Referred Journals

1.	Singh, T., and Verma, V.K. (2006) "Achieving Business Excellence through Total Productive Maintenance", Punjab Journal of Business Studies, Vol. 2, No. 2, pp. 73-81.
2.	Singh, T. and Gupta, V.K. (2009) "Effect of Material Parameters on Steady State Creep in a Thick Composite Cylinder Subjected to Internal Pressure", The Journal of Engng Research, Vol. 6, No. 2, pp. 20-32.
3.	Singh, T. and Gupta, V.K. (2009) "Creep analysis of an internally pressurized thick cylinder made of a functionally graded composite", The Journal of Strain Analysis for Engng Design, Vol. 44, pp. 583–594.
4.	Singh, T. and Gupta, V.K. (2010) "Modeling of creep in a thick composite cylinder subjected to internal and external pressures", International Journal of Materials Research, Vol. 2, pp. 279-286.
5.	Singh, T. and Gupta, V.K. (2010) "Modeling steady state creep in Functionally Graded Thick cylinder subjected to internal pressure", Journal of Composite Materials. Vol. 44(11), pp 1317-1333.
6.	Singh, T. and Gupta, V.K. (2011) "Effect of Anisotropy on Steady State Creep in Functionally Graded Cylinder" Composite Structures. Vol. 93(2), pp. 747-758.
7.	Singh, T. and Gupta, V.K. (2012) "Steady State Creep Analysis of a Functionally Graded Thick Cylinder subjected to Internal Pressure and Thermal Gradient", International Journal of Materials Research. Vol. 103, pp. 1042-1051.
8.	Singh, T. and Gupta, V.K. (2013), "Modeling Steady State Creep Behavior of Functionally Graded Thick Cylinder in the Presence of Residual Stress", Proceedings Engineering, Vol. 55, pp. 760-767.
9.	Singh, T., Mangal, S.K. and Kapoor, N. (2013), "Steady state creep analysis of functionally graded rotating cylinder", Strain: An international journal of experimental mechanics, Vol. 49(6), pp.457-466.
10.	Singh, T. and Singh, H. (2013), "Steady State Creep Behavior of Functionally Graded Thick Cylinder", International Journal of Aerospace, Mechanical, Automotive and Materials Engineering, Vol.7 (12), pp. 1411-1417.
11.	Singh, T. and Gupta, V.K. (2014) "Analysis of Steady State Creep in Whisker Reinforced Functionally Graded Thick Cylinder Subjected to Internal Pressure by considering Residual Stress" Mechanics of Advanced Materials and Structures. Vol. 21, pp. 384-392.
12.	Kumar R., Singh, T. and Singh H. (2015) "Solid Waste Based Hybrid Natural Fibre Polymeric Composites" Journal of Reinforced Plastics and Composites. Vol. 34 (23), pp.1979-1985.
13.	Kohli G.H. and Singh, T (2015) "Review of Functionally Graded Materials" Journal of Production Engineering, ISSN 1821-4932. Vol.18 (2), pp. 1-4.
14.	Singh, T., and Singh I. (2016) "Modeling of Steady State Creep in Thick Cylinder under Internal Pressure", International J of Mechanical, Aerospace, Industrial, Mechatronics and Manufacturing Engineering, Vol. 10 (5), pp 849-854.

#### (B) National Referred Journals NA

#### (C) International Conferences

15.	Singh, T., Kaur, K. and Sachdeva, A. (2007), "A Critical Study of Reward System as a Tool for Promoting Performance in an Organization-A Case Study", Global Conference on Production and Industrial Engineering, at NIT Jalandhar, India, March 22-24.
16.	Singh, T. and Gupta, V.K. (2009), "Modeling Steady State Creep in Functionally Graded Thick

	Cylinder Subjected to Internal Pressure”, <b>Presented at 9<sup>th</sup> Operating Pressure Equipment Conference, Surfers Paradise, Queensland, Australia</b> , August 26–28, pp.329–335.
17.	Singh, T. and Gupta, V.K. (2009), “Effect of Anisotropy on Creep Behaviour of Functionally Graded Composite Cylinder with Internal and External Pressure”, <b>Presented at 9<sup>th</sup> Operating Pressure Equipment Conference, Surfers Paradise, Queensland, Australia</b> , August 26–28.
18.	Singh, T., Kaur, K. and Kumar, R. (2010), “Application of Quality Function Deployment in Health Care Sector for Enhancing Consumer Satisfaction-A Case Study”, 2 <sup>nd</sup> International conference on Production and Industrial Engineering, at NIT Jalandhar, India, December 3-5.
19.	Singh, T. and Kohli, G (2012) “Functionally Graded Materials: A Review”, International conference on Advancement in Engineering and Technology at BGCIET, Sangrur from 12.10.2012 to 13.10.2012.
20.	Singh, T. and Gupta, V.K. (2012), “Modeling Steady State Creep Behavior of Functionally Graded Thick Cylinder in the Presence of Residual Stress”, <b>Presented at 6<sup>th</sup> International Conference on Creep, Fatigue and Creep-Fatigue Interaction, Mamallapuram, India, January 22–25</b> , pp 1055-1061.
21.	Singh, T. and Singh, H. (2013), “Steady State Creep Behavior of Functionally Graded Thick Cylinder”, <b>Presented at International Conference on Aerospace, Mechanical, Automotive and Materials Engineering, Melbourne, Victoria, Australia</b> , December 16–17.
22.	Kumar, R. and Singh, T. (2013), “Risk Husk reinforced Composites: A review”, International conference on research and innovations in mechanical engineering, GNDEC, Ludhiana from October, 24-26.
23.	Khanna, V. and Singh, T. (2013), “Steady state creep in rotating thick-walled composite cylinders”, International conference on Advancements and Futuristic Trends in Mechanical and Materials engineering, PTU Kapurthalla, from October 3-6, pp. 246-252.
24.	Singh, T. and Kohli, G (2014) “Processing Techniques of Functionally Graded Materials: A Review”, International conference on Advancement in Engineering and Technology at BGCIET, Sangrur from 21.02.2014 to 22.02.2014.
25.	Kumar S., Singh, T. and Aggarwal, J.K., (2014) “An Experimental Study on Effects of Thermal Cycling on Cast Aluminium Composites Reinforced with Silicon Carbide and Fly Ash Particles”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
26.	Kohli G.S., and Singh, T., (2014) “Introduction to Functionally Graded Material-An Overview”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
27.	Singh N., Singh, T., and Gupta V.K.,(2014) “A Review on Natural Fiber Reinforced Hybrid Composite”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
28.	Singh H., and Singh, T., (2014) “Mechanical Characterization of Jute Bagasse Epoxy and Jute Lantane Camara Epoxy Hybrid Natural Fiber Composites”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
29.	Kapoor N., and Singh, T., (2014)“Creep Analysis of Functionally Graded Rotating Cylinder with Particle Gradient”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
30.	Pandher C.S., Brar G.S., and Singh, T., (2014)“Use of Composite in Leaf Springs”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
31.	Sandhu S.S., and Singh, T., (2014) “Comparative Evaluation of magnetic abrasives Developed by Adhesive Bonding”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
32.	Sandhu S.S., and Singh, T., (2014) “Review- Analysis of Creep in Spherical Pressure Vessels Made of Functionally Graded Composite”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
33.	Sandhu S.S., Panwar V., Singh M. and Singh, T., (2014) “Effect of Welding parameter of Flux Consumption in Submerged Arc Welding”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
34.	Singh M., Sandhu S.S., Panwar V., and Singh T., (2014) “Effect of Chemistry of Weld Metal in Submerged Arc Welding”, Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
35.	Kumar R., Singh T., and Singh H., (2014) “Hybrid Biofiber Plastics Based Composite: Review”,

	Presented at International Conference on Frontiers in Material Research & Applications, October, 30-31, SBSSTC, Ferozepur.
36.	Gupta A., Singh T., and Gupta V.K, (2016) “Modeling steady state creep in thick-walled functionally graded spherical vessels”, 7 <sup>th</sup> International Conference on creep, fatigue and creep-fatigue interaction, January, 19-22, Indira Gandhi center for atomic research, Kalpakkam, India, pp 473-478.
37.	Uppal H., and Singh T., (2016) “Effect of varying particle size on steady state creep in thick composite cylinders subjected to internal pressure”, 7 <sup>th</sup> International Conference on creep, fatigue and creep-fatigue interaction, January, 19-22, Indira Gandhi center for atomic research, Kalpakkam, India, pp 503-508.
38.	Singh H., Singh, T. and K. Gurpreet, (2016) “Mechanical Characterization of Natural - Glass Fiber Reinforced Polymer Hybrid Composites: A Review”, 4 <sup>th</sup> International Conference on Production and Industrial Engineering , December, 19-21, NIT, Jalandhar.
39.	Singh. J., Singh, R.R. and Singh, T, (2016) “ Experimental Investigation of Wire Wear Ratio for WEDM of Case Hardening Steel (20MnCr5) using Taguchi Method”, 4 <sup>th</sup> International Conference on Production and Industrial Engineering , December, 19-21, NIT, Jalandhar.

### **(C) National Conferences**

40.	Singh, T. and Verma, V.K. (2002) “Comparison of CNG VIS-À-VIS Alternative Fuels”, All India Seminar Organized by CRSCE Muruthal, 20 <sup>th</sup> February.
41.	Singh, T., Kaur, K. and Arneja, G (2002), “Integrating Human Values in Technical Education”, Conference on Integrating Human Values in Technical Education at BBSBEC, Fatehgarh Sahib, India, 26 <sup>th</sup> April.
42.	Singh, T., Arneja, G. and Verma, V.K. (2002) “Flow Shop Scheduling Problems with Fixed Number of Jobs”, National Seminar of ISTE at GNDEC, Ludhiana, 29 <sup>th</sup> November.
43.	Singh, T. (2005) “Simulation of Tool Flank Wear for Online Multi-objective Optimization of Turning Operation”, at the Conference on Computer Aided Design”, Conference on Computer Aided Design at TIET Patiala, 8 <sup>th</sup> -9 <sup>th</sup> April.
44.	Singh, T. and Gupta, V.K. (2008), “The Effect of Temperature on Steady State Creep in a Thick-Walled Composite Cylinder Subjected to Internal and External Pressures”, National Conference Mechanisms Science and Technologies, Hamirpur, November 13-14, pp. 392–401.
45.	Singh, T. and Gupta, V.K. (2010), “Creep Behaviour of a Transversely Isotropic Functionally Graded Cylinder under Internal Pressure”, National conference on Global Trends in mechanical Engg. RBIEBT, Mohali, April 16-17.
46.	Singh, T. and Kaur, K. (2011), “Role of Teachers in Moral Development of Engineering Students”, 1 <sup>st</sup> National Conference on Moral and Ethical Values for Professionals at IET Bhaddal, India, 15-16 April.
47.	Singh, T., and Singh I., (2015) “Time Dependent Steady State Creep Analysis of Thick Cylinder Subjected to Internal Pressure”, Presented at National Conference on Latest Developments on Materials, Manufacturing and Quality Control, February, 19-20, GZSPTU Campus Bathinda.

### **(E) Invited Talk**

- 1) Advanced Strength of Materials, at CT Institute of Engineering, Management and Technology, Jalandhar on 12.03.2011.
- 2) Elements of TQM and its Importance in Technical Institutions, FDP on TQM in Professional Institutions at GGS College of Modern Management on 28.12.2011.
- 3) AutoCAD for Engineers, STC on Applied Soft Computing at SBSSTC, Ferozepur on 28.11.2012
- 4) Correlation and Regression Analysis, STC on Research Methodology: Tools and Techniques, at SBSSTC, Ferozepur on 4.12.2012.
- 5) Modelling and Analysis of Steady state creep in Functionally Graded Rotating Cylinder, FDP on Futuristic Materials at SBSSTC on 3.10.2013.

- 6) Composite Materials and an overview of Functionally Graded Materials, FDP on Futuristic Materials at SBSSTC on 4.10.2013.
- 7) Motivation as a tool for Effective Teaching, FDP on Effective Teaching at Desh Bhagat Institute of Engineering and Technology, Moga on 4.6.2014.
- 8) Creep Analysis of Functionally Graded Rotating Cylinders, STC on Advancements in Mechanical Engineering at Beant College of Engineering and Technology, Gurdaspur on 27.6.2014.
- 9) Steady State Creep Analysis of Functionally Graded Thick Cylinders, FDP on Advanced Manufacturing Methods: Future Challenges at Amritsar College of Engineering and Technology, Amritsar on 11.7.2014.
- 10) Creep Analysis of Functionally Graded Materials, TEQIP sponsored STC on Advanced Research in Materials, Manufacturing and Mechanical Engineering at Giani Zail Singh Punjab Technical Campus, Bathinda on 28.10.2014.
- 11) Steady State Creep Behavior of Functionally Graded Cylinders Subjected to Rotary Inertia, at Malout Institute of Management and Information Technology, Malout on 29.3.2015.
- 12) Writing Research Paper and Dissertation, AICTE/TEQIP sponsored FDP on Research Techniques at SBS State Technical Campus, Ferozepur, on 2.6.2015.

## **Annexure-B**

### **Faculty Development Programme organized in the Institute**

<b>Sr No.</b>	<b>From</b>	<b>To</b>	<b>Institute</b>	<b>Sponsored by</b>	<b>Name of the course</b>
1.	21.5.2012	1.6.2012	SBSSTC, FZR	AICTE	Multi-Criteria Optimization Tools in Research
2.	3.12.2012	7.12.2012	SBSSTC, FZR	TEQIP-II	Research Methodology: Tools and Techniques.
3.	2.9.2013	6.9.2013	SBSSTC, FZR	TEQIP-II	Soft Skills for Technical Teachers
4.	16.9.2013	20.9.2013	SBSSTC, FZR	TEQIP-II	Role of Industrial Engg and Design in Present Scenario
5.	23.9.2013	27.9.2013	SBSSTC, FZR	TEQIP-II	Strengthening Industry Institute Interaction
6.	30.9.2013	5.10.2013	SBSSTC, FZR	TEQIP-II	Futuristic Materials

## **Annexure-C**

### **Main Extra-Curricular Activities organized**

## **Annexure-D**

### **Main Curricular and Co-Curricular Activities Organized**

