


1.	<b>Name</b>	<b>Dr. T.S. Sidhu</b>		 <p>Email: <a href="mailto:tssidhu@rediffmail.com">tssidhu@rediffmail.com</a></p>																		
2.	<b>Designation</b>	Director																				
3.	<b>Date of Birth</b>	Dec. 10, 1965																				
4.	<b>Education Qualification</b>	<ul style="list-style-type: none"> <li>• B.E. (Mech. Engg), Panjab Uni. Chandigarh</li> <li>• M.E. (Mech. Engg), PanjabUni. Chandigarh</li> <li>• M.B.A., Punjabi University Patiala</li> <li>• Ph.D, IIT Roorkee</li> </ul>																				
5.	<b>Work Experience</b>	<p><b>Teaching and Administrative : 24 years and 2 months</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;"> <ul style="list-style-type: none"> <li>• Director, Shaheed Bhagat Singh College of Engineering &amp; Technology, Ferozepur, Punjab</li> </ul> </td> <td style="width: 20%;">25.04.2012 to till date</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Principal, Baba Hira Singh Bhattal Institute of Engg &amp; Tech. Lehragaga, Sangrur, Punjab (Additional Charge)</li> </ul> </td> <td>01.08.2014 to till date</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Principal, Shaheed Bhagat Singh College of Engineering &amp; Technology, Ferozepur, Punjab</li> </ul> </td> <td>3 years 07 months (from 10.10.2008 To 24.04.2012)</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Principal, Baba Hira Singh Bhattal Institute of Engineering &amp; Technology, Lehragaga, Sangrur, Punjab (Additional Charge)</li> </ul> </td> <td>1 year 1 months (June .2008 to Jul 2009 and Aug 2012 to April 2013)</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Principal, Giani Zail Singh College of Engineering &amp; Technology, Bathinda, Punjab (Additional Charge)</li> </ul> </td> <td>1 years (2010-11)</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Professor at S.B.S. College of Engg. &amp; Tech.,Ferozepur</li> </ul> </td> <td>2 yrs 5 months</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Asstt. Prof. at S.B.S. College of Engg. &amp; Tech.,Ferozepur</li> </ul> </td> <td>9 yrs 9 months</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Lecturer at G.Z.S. College of Engg. &amp; Tech., Bathinda</li> </ul> </td> <td>4 yrs 3 months</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Lecturer at Guru Nanak Dev Engg. College, Ludhiana</li> </ul> </td> <td>2 yrs 1 month</td> </tr> </table> <p><b>Research : 2 years 7 months</b></p>			<ul style="list-style-type: none"> <li>• Director, Shaheed Bhagat Singh College of Engineering &amp; Technology, Ferozepur, Punjab</li> </ul>	25.04.2012 to till date	<ul style="list-style-type: none"> <li>• Principal, Baba Hira Singh Bhattal Institute of Engg &amp; Tech. Lehragaga, Sangrur, Punjab (Additional Charge)</li> </ul>	01.08.2014 to till date	<ul style="list-style-type: none"> <li>• Principal, Shaheed Bhagat Singh College of Engineering &amp; Technology, Ferozepur, Punjab</li> </ul>	3 years 07 months (from 10.10.2008 To 24.04.2012)	<ul style="list-style-type: none"> <li>• Principal, Baba Hira Singh Bhattal Institute of Engineering &amp; Technology, Lehragaga, Sangrur, Punjab (Additional Charge)</li> </ul>	1 year 1 months (June .2008 to Jul 2009 and Aug 2012 to April 2013)	<ul style="list-style-type: none"> <li>• Principal, Giani Zail Singh College of Engineering &amp; Technology, Bathinda, Punjab (Additional Charge)</li> </ul>	1 years (2010-11)	<ul style="list-style-type: none"> <li>• Professor at S.B.S. College of Engg. &amp; Tech.,Ferozepur</li> </ul>	2 yrs 5 months	<ul style="list-style-type: none"> <li>• Asstt. Prof. at S.B.S. College of Engg. &amp; Tech.,Ferozepur</li> </ul>	9 yrs 9 months	<ul style="list-style-type: none"> <li>• Lecturer at G.Z.S. College of Engg. &amp; Tech., Bathinda</li> </ul>	4 yrs 3 months	<ul style="list-style-type: none"> <li>• Lecturer at Guru Nanak Dev Engg. College, Ludhiana</li> </ul>	2 yrs 1 month
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		<b>Others :</b> (i) Dean (Administration) -02 years) (ii) Head, Deptt. of Mechanical & Production Engineering – 02 years (iii) Head, Deptt. of Industrial Engineering – 2 years (iv) Estate Officer - 02 years (v) Hostel Warden - 03 years (vi) Training & Placement Officer - 02 years (vii) Officer Incharge Security, Sweepers and Horticulture Services- 02 years		
6.	<b>Area of Specializations</b>	<ul style="list-style-type: none"> <li>• High Temperature Degradation of Metals and Alloys</li> <li>• Hot Corrosion</li> <li>• Oxidation</li> <li>• Protective Coatings</li> <li>• High Velocity Oxy-Fuel (HVOF) Sprayed Coatings</li> </ul>		
7.	<b>Subjects Teaching at</b>	<b>(a) Graduate Level</b>	<ul style="list-style-type: none"> <li>• Engineering Materials</li> <li>• Production Planning and Control</li> <li>• Total Quality Management</li> <li>• Work Study and Ergonomics</li> <li>• Operation Research</li> <li>• Statistics</li> </ul>	
		<b>(b) Post Graduate Level</b>	<ul style="list-style-type: none"> <li>• Methods Engg. &amp; Ergonomics</li> <li>• Quantitative Techniques</li> <li>• Principles Practice and Mgmt.</li> </ul>	
8.	<b>Total Number of Research Publications (Annexure-A)</b>	<b>Published</b>	<b>118</b>	<b>Communicated</b>
		<ul style="list-style-type: none"> <li>• <b>International Journals*</b></li> <li>• <b>National Journals**</b></li> <li>• <b>International Conferences</b></li> <li>• <b>National Conferences</b></li> </ul>	47 09 38 22	02

* Acta Materialia -01 Scripta Materialia-01 Mater. Sci. Engg.-A-02 Marine Technol. Soc. J.-01 Int. J. Phy. Sci.-01 Corrosion-1	Thin Solid Films-01 Surf. Coat. Technol. -05 Materials Perform.-01 Physicochemical Mechanics of Materials-01	J. Mater. Engg. Perform. -02 J. Thermal Spray Technol.-03 Metallurgical and Materials Trans. A-01 J. Naval Arch. Marine Engg.-1 Corrosion Engg. Sci. Tech.-1
** Sadhna-01, Current Science-01	i-manager's J. Mech. Engg. Indian J. Engg. Sci. and Tech.,	i-manager's J. Electron. Engg.,

9.	<b>No. of Students Guided</b>	
	<b>Master's</b>	<b>05</b>
	<b>Ph.D</b>	<b>Ph.D Completed: 03</b> <b>Ph.D in progress: 03</b>
10.	<b>Academic Achievements and Awards.</b>	<p>(i) <b>NACE International</b> India Section has awarded <b>"Best Ph.D. Award"</b>, along with a citation and cash award of Rs. 5000 for meritorious contributions in the field of corrosion sciences.</p> <p>(ii) Got 'Student Award' to attend the "International Conference on Surfaces, Coatings and Nanostructured Materials" held at University of Aveiro, Portugal, on 6-9 September 2005.</p> <p>(iii) Got appreciation letter from IIT Roorkee for submitting Ph.D. thesis in a record time of <b>02 years and 04 months</b>, with record number of publications i.e. <b>18 research papers in international referred journals</b> of repute and 07 research papers in international conferences out of Ph.D. thesis.</p> <p>(iv) One of my papers titled "Hot Corrosion of Some Superalloys and role of High-Velocity Oxy-Fuel Spray Coating-A Review, has been <b>rated at 6<sup>th</sup> position among the top 25 papers of the international journal "Surf. Coat. Technol."</b> (Elsevier).</p> <p>(v) Got rare distinction of publication of <b>'Bio-data'</b> in the American Journal <b>"Journal of Thermal Spray Technology"</b> Vol. 15(3), pp. 320-322, under the column 'Meet Our New Colleague'. <b>This column of the journal presents selected currently graduating Ph.D. students in the thermal spray field around the world.</b></p>

		(vi) <b>Working as reviewer for the following journals:</b> a) Surface and Coating Technology (Elsevier) b) Journal of Materials Research c) Journal of the American Ceramic Society d) Wear (Elsevier) e) Scripta Materialia f) Corrosion Science, g) Int. Journal of Physical Sciences. h) Crystal Growth & Design	
11.	<b>Projects Carried out</b>	(a) Modernization of Thermal Engineering Lab (b) Development of Manufacturing Process Lab.	Rs. 4 Lacs Rs. 10 Lacs
12.	<b>Projects in Hand</b>	(a) Erosion-Corrosion and Hot Corrosion Studies on HVOF Spray Coatings Using Conventional and Nano-Structured Feedstock Alloys (b) Modernisation of Materials and Metallurgy Laboratory (c) <b>TEQIP-II</b> (d) <b>SC/ST Hostel Grant</b>	Rs. 12 Lacs Rs. 15 Lacs Rs. 10.00 Crore Rs. 2.00 Crore
13.	<b>Project in the Institute</b>	Got Govt. Funded Project in the Institute ( <b>Annexure-B</b> )	Rs. 13.54 Crore
14.	<b>Applied Project</b>	List of Project Applied for Getting Funds ( <b>Annexure-C</b> )	1.94 Crore

15.	<b>Short-Term Courses Organised as a faculty</b>	<ul style="list-style-type: none"> <li>(a) Total Quality Management &amp; ISO 9000</li> <li>(b) Industry Institute interaction-New Challenges</li> <li>(c) Materials Degradation and their Protection</li> <li>(d) Entrepreneurship Development Programme</li> <li>(e) Entrepreneurship Awareness Camp</li> </ul>	<p>02 Weeks</p> <p>02 Weeks</p> <p>01 Week</p> <p>01 Week</p> <p>02 days</p>
16.	<b>Short-Term Courses Attended</b>	<ul style="list-style-type: none"> <li>(a) ISO 9000 and Quality Systems</li> <li>(b) Applications of <b>Finite Element Methods</b></li> <li>(c) Mathematical Modelling and Real Life Problems</li> <li>(d) Nano Technology-Nano Materials &amp; their Applications</li> <li>(e) Teaching Methodologies and Pedagogy</li> <li>(f) Corrosion and its Protection</li> <li>(g) Personal computer and Applications</li> <li>(h) Industry Institute Interfacing-innovative Approaches</li> <li>(i) Instrumentations and Data Analysis</li> <li>(j) Seminar on Accreditation by NBA and workshop</li> </ul>	<p>02 weeks</p> <p>02 weeks</p> <p>02 weeks</p> <p>02 weeks</p> <p>01 weeks</p> <p>01 weeks</p> <p>02 weeks</p> <p>01 weeks</p> <p>02 weeks</p> <p>04 days</p>
17.	<b>Faculty Development Programmes organized in the Institute</b>	Number of Faculty Development Programmes organized in the Institute are attached ( <b>List is attached as Annexure-D</b> )	20 Nos.
18.	<p><b>Membership of professional bodies:</b></p> <ul style="list-style-type: none"> <li>(i) Member of ISTE Section Management Committee (Pb, HP, Chd, J&amp;K Section) 2003-2004</li> <li>(ii) Life Member of ISTE (No. LM 17941)</li> <li>(iii) Member, Research Board of Advisors, The American Biographical Institute, since 2003.</li> </ul>		
19.	<b>Main Extra-Curricular Activities organized in year 2012 and 2013:Annexure-E</b>		
20.	<b>Main Curricular and Co-Curricular Activities Organised in the year 2013-14: Annexure-F</b>		

21.	<b>Job Fairs Organized at SBSSTC:</b> Annexure-G
22.	<b>Main Sports Events Organised in the Institute:</b> Annexure-H
23.	<b>Other Achievement of the Institute:</b> Annexure-I

## Annexure-A

### LIST OF PUBLICATIONS

#### (A) International Referred Journals

1. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2005) “State of the Art of HVOF Coating Investigation-A Review,” *Marine Technology Society Journal*, Vol. 39, No. 2, pp. 55-66.
2. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2005), “Studies on the Properties of High Velocity Oxy-Fuel Thermal Spray Coatings for Higher Temperature Applications”, *Materials Science (Springer New York)*, Vol. 41, No. 6, pp. 805-823.
3. **T.S. Sidhu**, R.D. Agrawal, and S. Prakash, (2005), “Hot Corrosion of Some Superalloys and Role of High-Velocity Oxy-Fuel Spray Coatings—A Review,” *Surf. Coat. Technol. (Elsevier)*, Vol. 198, pp. 441-446.
4. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2005) “Studies on the Properties of High Velocity Oxy-Fuel Thermal Spray Coatings for Higher Temperature Applications”, *Physicochemical Mechanics of Materials*, Vol. 41, No. 6, pp. 80-95.
5. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2006), “Hot Corrosion Behaviour of HVOF Sprayed NiCrBSi Coatings on Ni- and Fe- Base Superalloys in Na<sub>2</sub>SO<sub>4</sub>-60%V<sub>2</sub>O<sub>5</sub> Environment at 900°C,” *Acta Materialia (Elsevier)*, Vol. 54, No. 3, pp. 773-784.
6. **T.S. Sidhu**, S. Prakash, and R. D. Agrawal, (2006), “Hot Corrosion Performance of a NiCr Coated Ni-based Alloy,” *Scripta Materialia (Elsevier)*, Vol. 55, No. 2, pp. 179-182.
7. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2006), “Evaluation of Hot Corrosion Resistance of HVOF Coatings on a Ni-Based Superalloy in

- Molten Salt Environment,” *Mater. Sci. Engg. A* (Elsevier), Vol. 430, No. 1-2, pp. 64-78.
8. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2006) “Characterisations of HVOF Sprayed NiCrBSi Coatings on Ni- and Fe- Based Superalloys and Evaluation of Cyclic Oxidation Behaviour of Some Ni-Based Superalloys in Molten Salt Environment” *Thin Solid Films* (Elsevier), Vol. 515, No. 1-2, pp. 95-105.
  9. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2006), “Characterisation of NiCr Wire Coatings on Ni- and Fe- Based Superalloys by HVOF Techniques,” *Surf. Coat. Technol.* (Elsevier), Vol. 200, No. 18-19, pp. 5542-5549.
  10. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, (2006), “Performance of High Velocity Oxy-Fuel Sprayed Coatings on a Fe-Based Superalloy in Na<sub>2</sub>SO<sub>4</sub>-60%V<sub>2</sub>O<sub>5</sub> Environment at 900°C. Part I: Characterisation of the Coatings, *J. Mater. Engg. Perform.* (ASM International), Vol. 15 No. 1, pp. 122-129.
  11. **T.S. Sidhu**, S. Prakash and R.D. Agrawal, (2006) “Characterisations and Hot Corrosion Resistance of Cr<sub>3</sub>C<sub>2</sub>-NiCr Coating on Ni-base Superalloys in an aggressive Environment,” *J. Therm. Spray Technol.* (ASM International), Vol. 15, No. 4, pp. 811-816.
  12. **T.S. Sidhu**, S. Prakash, and R.D. Agrawal, S., (2006), “Performance of High Velocity Oxy-Fuel Sprayed Coatings on a Fe-Based Superalloy in Na<sub>2</sub>SO<sub>4</sub>-60%V<sub>2</sub>O<sub>5</sub> Environment at 900°C. Part II: Hot Corrosion Behaviour of the Coatings, *J. Mater. Engg. Perform.* (ASM International), Vol. 15, No.1, pp. 130-138.
  13. **T.S. Sidhu**, S. Prakash, and R. D. Agrawal, (2006)“Studies of the Metallurgical and Mechanical Properties of High Velocity Oxy-Fuel Sprayed Stellite-6 Coatings on Ni and Fe- Based Superalloys,” *Surf. Coat. Technol.* (Elsevier), Vol. 201, No. 1-2, pp. 273-281.
  14. **T.S. Sidhu**, (2006), Studies on The Hot Corrosion Behaviour of HVOF Coatings on Some Ni- and Fe-Based Superalloys, Abstract of Ph.D.



Thesis, *J. Therm. Spray Technol. (ASM International)*, Vol.15, No.3, pp. 320-322.

15. **T.S. Sidhu**, S. Prakash, and R. D. Agrawal, (2006), "Hot Corrosion studies of HVOF sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr and Ni-20Cr Coatings on Nickel Based Superalloy at 900°C," *Surf. Coat. Technol. (Elsevier)*, Vol. 201, No. 3-4, pp. 792-800.
16. **T.S. Sidhu**, S. Prakash, and R. D. Agrawal, (2006) "Hot Corrosion Resistance of HVOF Sprayed Coatings on a Ni-Based Superalloy in Molten Salt Environment," *J. Therm. Spray Technol. (ASM International)*, Vol. 15, No. 3., pp. 387-399.
17. **T.S. Sidhu**, S. Prakash, and R. D. Agrawal, (2006), "Hot Corrosion Studies of HVOF NiCrBSi and Stellite-6 Coatings on a Ni-Based Superalloy in an Actual Industrial Environment of a Coal Fired Boiler," *Surf. Coat. Technol. (Elsevier)*, Vol.201, No. 3-4, pp.1602-1612.
18. **T.S Sidhu**, S. Prakash and R.D. Agrawal, (2006), Cyclic oxidation behavior of Ni- and Fe-based superalloys in air and Na<sub>2</sub>SO<sub>4</sub>-25%NaCl molten salt environment at 800 °C , *Int J. Physical Sciences*, Vol. 1, No.1, pp. 027-033.
19. **T.S Sidhu**, S. Prakash and R.D. Agrawal, (2006), "Study of Molten Salt Corrosion of Superni 75 using Thermogravimetric Technique" *Journal of Naval Architecture and Marine Engineering*, Vol. 3, No. 2, pp. 77-82.
20. **T.S Sidhu**, S. Prakash and R.D. Agrawal, (2007), Study of molten salt corrosion of HVOF sprayed cermet and nickel based coatings at 900 °C, *Metallurgical and Materials Transactions-A (ASM International)*, Jan. 2007, Vol. 38A, pp. 77-85.
21. **T.S Sidhu**, S. Prakash and R.D. Agrawal, (2007), "A comparative study of hot corrosion resistance of HVOF sprayed NiCrBSi and Stellite-6 Coated Ni-Based Superalloy at 900 °C" *Materials Science and Engineering-A (Elsevier)*, Vol. 445-446, pp. 210-218.

22. **T.S. Sidhu**, S. Prakash, and R. D. Agrawal, (2007), "Performance of HVOF sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr Coating in Actual Boiler Environment of a Thermal Power Plant," *Corrosion (NACE International)*, Sep. 2007, Vol. 63, No. 9, pp. 828-834.
23. **T.S Sidhu**, A. Malik, S. Prakash and R.D. Agrawal, (2007), Oxidation and hot-corrosion resistance of HVOF WC-NiCrFeSiB coating on Ni- and Fe-based superalloys at 800 °C, *J. Therm. Spray Technol. (ASM International)*, Vol. 16, No. 5-6, December 2007, pp. 844-849.
24. **T.S Sidhu**, S. Prakash and R.D. Agrawal, (2008), "Investigations on the Role of HVOF Sprayed Co- and Ni- Based Coatings to combat Hot Corrosion" *Corrosion Engineering Science and Technology*, Vol. 43, No. 6, December, 2008, pp. 335-342.
25. Tarun Goyal, R.S.Walia, **T.S.Sidhu**, (2011) "Low- pressure cold sprayed coatings process parameter optimization using Taguchi multi-response", *International Journal of Surface Engineering and Materials Technology (IJSEM)*, Vol. 1, No. 1, July-Dec, 2011, pp. 5-11.
26. Tarun Goyal, Prince Sharma, **R.S.Walia**, T.S.Sidhu (2011), "Effect of nozzle geometry on exit velocity, temperature and pressure for cold spray process", *International Journal of Materials Science and Engineering (IJMSE)*, Vol. 2, No. 1-2, Jan-Dec, 2011, pp. 65-72.
27. Harminder Singh, **T.S. Sidhu**, S.B.S. Kalsi,(2012) "Cold Spray Technology: Future of Coating Deposition Processes" *Frattura ed Integrità Strutturale, (Fracture and Structural Integrity)*, Journal of the Italian Group of Fracture (ISSN 1971-8993), 22: 69-84; DOI: 10.3221/IGF-ESIS.22.08.
28. Harminder Singh, **T.S. Sidhu**, S.B.S. Kalsi,(2013) "Development of Cold Spray from Innovation to Emerging Future Coating Technology", *Journal of the Brazilian Society of Mechanical Sciences and Engineering (ISSN 1678-5878) (Springer publication)*, Vol. 35 No.3, pp.231-245, DOI: 10.1007/s40430-013-0030-1

29. Harminder Singh, **T.S. Sidhu**, SBS kalsi, (2012), “An overview of the effect of hot corrosion in waste to- energy (WTE) plant environment”, Asian Journal of Engineering and Applied Technology (ISSN 2249-068X), 2012; 1(2): 50-52.
30. Harminder Singh, **T.S. Sidhu**, (2013) “High temperature corrosion behavior of Ni-based superalloy Superni-75 in the real service environment of medical waste incinerator”, Oxidation of metals, springer publication, DOI: 10.1007/s11085-013-9414-Y.
31. Harminder Singh, **T.S. Sidhu**, (2013), “Chlorine induced hot corrosion behavior of boiler tube materials under NaCl and/or Na<sub>2</sub>SO<sub>4</sub> deposits in waste incineration environment”, Journal of thermal spray technology, springer publication, (under revision).
32. Tarun Goyal, R.S.Walia, **T.S.Sidhu**, (2012) “Study of coating thickness of cold spray process using Taguchi method”, International Journal of Materials and Manufacturing Processes, Vol. 27, No.2, 2012; pp. 185-192.
33. Tarun Goyal, R.S.Walia, **T.S.Sidhu**,(2012) “Surface roughness optimization of cold sprayed coatings using Taguchi method”, International Journal of Advanced Manufacturing Technology, Vol. 60, No.5-8, May 2012; pp. 611-623.
34. Tarun Goyal, R.S.Walia, **T.S.Sidhu**,(2012) “Effect of parameters on coating density for cold spray process”, International Journal of Materials and Manufacturing Processes, Vol. 27, No.2, 2012; pp. 193-200.
35. Tarun Goyal, R.S.Walia, **T.S.Sidhu**,(2012) “Cold sprayed copper coatings on Brass: Corrosion studies in simulated marine and industrial environment”, International Journal of Mechanic Systems Engineering, IJMSE, Vol.2, Nos.1, February 2012; pp. 1-14, [www.jomse.org](http://www.jomse.org) © World Academic Publishing.
36. Tarun Goyal, **T.S.Sidhu**, R.S.Walia,(2012) “Cold sprayed copper coatings on ASTM B 221 alloy- Characterization and corrosion study in simulated

- marine and industrial environment”, International Journal of Surface Science and Engineering, Vol.6, Nos.4, 2012; pp. 306-337.
37. Tarun Goyal, R.S.Walia, **T.S.Sidhu**,(2013) “Multi-response optimization of low- pressure cold sprayed coatings through Taguchi method and Utility concept”, International Journal of Advanced Manufacturing Technology, Vol. 64, No.5-8, February 2013; pp. 903-914.
38. Tarun Goyal, **T.S.Sidhu**, R.S.Walia (2013) “Multi-response Optimization of Process Parameters for Low-Pressure Cold Spray Coating Process using Taguchi and Utility Concept” Journal of thermal spray Technology, DOI:10.1007/s11666-013-9988-6.
39. Tarun Goyal, Prince Sharma, R.S.Walia, **T.S.Sidhu**, “Finite element modelling and analysis of powder stream in Low pressure cold spray process”, The Journal of Institution of Engineers India- Series C, **UNDER REVIEW**.
40. Tarun Goyal, **T.S.Sidhu**, R.S.Walia, “Characterization and corrosion studies of cold sprayed copper coatings on ASTM B 435 alloy”, International Journal of Surface Science and Engineering, Vol. 7, No. 4, PP. 295-328.
41. Tarun Goyal, R.S. walia and T.S. Sidhu (2014), “ Investigation on Multi-Response Parameter Optimization of Cold Spray Coating Process” Int Journal of Surface Engineering and Materials Technology, Vol.4, No.1, pp. 50-56.
42. Harminder Singh, T.S. Sidhu and S.B.S. Kalsi (2014), “ Study of the Behaviour of Ni-Based Superalloys in Actual Waste Incinerator Plant under Cyclic Conditions for 1000h at 900<sup>0</sup> C” Corrosion, the Journal of Science and Engineering of NACE International, doi:http://dx.doi.org/10.5006/1163
43. S.B. Kalsi, T.S.Sidhu and H. Singh (2014), “Performance of Cold Spray Coating in Industrial Medical Waste Incinerator” Surface Engineering, Vol. 30 NO. 5, PP. 352-56.

44. S.B. Kalsi, T.S.Sidhu and H. Singh (2014), "Chlorine Based Hot Corrosion Study of Cold Sprayed NiCrAlY Coatings" *Surface Engineering*, Vol. 30 NO.6, PP. 422-26.
45. Sukhminderbir Singh Kalsi, T.S.Sidhu and H.Singh (2014) "Performance of Cold Spray Coatings on Fe-based Superalloy in Na<sub>2</sub>SO<sub>4</sub>-NaCl Environment at 900 °C, *Surface and Coating Technology*, Vol. 240, PP. 456-463.
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103. Sukhminderbir Singh Kalsi, **T. S. Sidhu** and Harminder Singh, (2010), "High Temperature Corrosion in Bio Medical waste incinerator", National Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (Feb.19-20, 2010), Yadvindra college of engineering, Punjabi university, guru kashi campus, Talwandi Sabo, pp.360-363, sponsored by DST and CSIR.
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### **(C) Invited Talk**

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## Annexure-B

### Got Govt. Funded Project in the Institute-Rs. 13.54 Crore

Sr. No.	Name of Project	Sponsoring authority	Scheme	Amount (Rs.)	Year of receiving	Current status
1	TEQIP-II	MHRD	Quality Improvement Programme	10.00 Crore	2013	70% completed
2	SC/ST Hostel Grant	AICTE	Welfare of SC/ST students	2.00 Crore	2013	In Progress
3	2-Weeks FDP on Nature Inspired Computational Intelligence	AICTE/MHRD	FDP	1.5 Lakhs	2012	completed
4	Books Grant	Govt of India	Welfare of SC/ST	12.00 Lakhs	2012	In Progress
5	Development of Testbed Facility for Evaluation of Defense Techniques against DDoS Attacks	AICTE	RPS	7.5 Lakhs	2012	In Progress
6	Total Turnaround strategy for loss making psu	AICTE	RPS Project	2.25 Lakhs	2012	In Progress
7	Modernization of CAD Lab	AICTE	MODROB	11.00 Lakhs	2012	Completed in 2013
8	Multi-Objective Optimization Tools in Research	AICTE	Short Term Course	2 Lakhs	2012	Completed in 2012
9	Modernization of Computational Lab	AICTE	MODROB	5.75 Lakhs	2012	completed
10	1-Week Faculty Development Program on Applied Soft Computing	AICTE/MHRD	FDP	2.00 Lakhs	2012	completed
11	Modernization of VLSI Lab	AICTE	MODROB	10 Lakhs	2011	Completed
12	Modernization of Networking Lab	AICTE	MODROB	8.5 Lacs	2011	Completed
13	Modernization of Heat Transfer Lab	AICTE	MODROB	11.50 Lakhs	2011	Completed

14	2-Week Staff Development Program on Intelligent Computational Techniques	AICTE	STC	1.98 Lakhs	2011	completed
15	Seminar Grant	AICTE	Seminar Grant	1.00 Lakh	2011	-----
16	Effluent removal from waste water	UGC	Research	7.00 Lakh	2009	In progress
17	Establishment of Laser & optical fiber Lab	AICTE	MODROB	5.00 Lakh	2009	Completed
18	Materials Degradation and their Protection	AICTE	Short Term Course	1 Lakh	2008	Completed in 2008
19	Parametric Study of HVOF	AICTE	RPS Project	12 Lakhs	2008	In Progress
20	Modernization of Material and Metallurgy Laboratory	AICTE	MODROB Project	15 Lakhs	2008	In Progress
21	Modernization of Foundry and Welding Laboratory	AICTE	MODROB Project	11 Lakhs	2008	Completed
22	Modernization of Microcontroller and Embedded Systems Lab	AICTE	MODROB	5.00 Lakhs	2008	Completed
23	Development of Manufacturing Process Laboratory	AICTE	MODROB Project	10 Lakhs	2008	Completed
24	Characterization and use of glucose based surfactants as micellar	DST	Research Grant	11.5 Lakhs	2008	Completed
<b>Total</b>				<b>Rs. 13.54 Crore</b>		

**Annexure-C****List of Project Applied for Getting Funds: 1.92 Crore**

<b>S. No.</b>	<b>Faculty Name</b>	<b>AICTE Project Title</b>	<b>Funding Scheme</b>	<b>Project Amount (In Lac Rupees)</b>	<b>Co-Investigator</b>
1	Ms. Navneet Kaur	Modernisation of BEEE lab	MODROBS	10.00	Anupam Mittal
2	Mr. Gulshan Kumar	Modrenization of RDBMS Lab	MODROB	14.2	Mr Anil Bansal
3	Dr. Satvir Singh	Object Detection using Intelligent Techniques	RPS	15.30	Vikram Mutneja
4	Dr. Satvir Singh	Modernization of Digital Signal Processing Lab	MODROBS	15.00	Vikram Mutneja
6	Dr. Kiranjeet Kaur	Modernization of Communication Skills Lab	MODROBS	12.50	Dr. A K Tyagi
7	Dr. Kiranjeet Kaur	Soft Skills for Technical Teachers	SDP	2.00	Dr. A K Tyagi
8	Dr. Lalit Sharma	Rationally Designed Glycodensiners as Static covalent Micelles for enhanced Drug Solubilization	CSIR	20.00	Dr. Sangeeta Sharma
9	Dr. A.K. Tyagi	Development of Low Loss Stable Dielectris Resonator	RPS	20.00	Dr. Ajay Kumar
10	Dr. Kulbhushan Agnihotri	Development of Applied Mathematics Lab	MODROBS	15.00	Mr. Rakesh Kumar
11	Dr. Rajeev Garg	Modernization of Computational lab	MODROB	15.00	Mr.Pankaj Kalra
12	Dr. Rajeev Garg	Modernization of Mechanical operations lab	MODROB	5.00	Mrs.Balpreet Kaur
13	Dr. Rajeev Garg	Increasing life time of membrane by reducing fouling in effluents of Pharmaceutical industry	RPS	15.00	Mr. Amit Arora
14	Dr. Rajbir Singh Bhatti	Development of Green Decision Support Models for Supply Chain Coordination in Automobile Sector of India	RPS	16.70	Dr Harwinder Singh GNDEC LDH
15	Dr. N.K. Grover	Modernization of CAD Lab	MODROBS	11.00	
16.	Dr. Krishan Kumar	Testbed for DDoS Attacks	RPS	7.50	Mr. Sunny Behal
<b>Total</b>				<b>194.2 Lakhs</b>	

## Annexure-D

### Faculty Development Programme organized in the Institute

Sr No	Name of FDP	Dept	From	To
1	Engineering Materials	Dept of Applied Sciences and Humanities	17-12-2012	21-12-2012
2	Soft Communication Skills	Dept of Applied Sciences and Humanities	02-09-2013	06-09-2013
3	Analytical Techniques in Detection of Environmental Pollutants	Dept of Applied Sciences and Humanities	16-12-2013	27-12-2013
4	Recent Trends in Polymers	Chemical Engineering	16-09-2013	20-09-2013
5	Managerial Skills	Civil Engineering	09-10-2013	13-10-2013
6	Research Methodology	Mechanical Engineering	03-12-2012	07-12-2012
7	Role of Industrial Engineering and Design in Present Scenario	Mechanical Engineering	16-09-2013	20-09-2013
8	Strengthening Industry Institute Interaction	Mechanical Engineering	23-09-2013	27-09-2013
9	Futuristic Materials	Mechanical Engineering	30-09-2013	05-10-2013
10	Intelligent Computational Techniques	Electronics Engineering	04-07-2011	15-07-2011
11	Applied Soft Computing	Electronics Engineering	26-11-2012	30-11-2012
12	Nature Inspired Computational Intelligence	Electronics Engineering	06-05-2013	17-05-2013
13	Recent Trends in Optical and Wireless Communication system	Electronics Engineering	09-09-2013	13-09-2013
14	Digital Image, Video and Medical Image Processing	Electronics Engineering	23-09-2013	27-09-2013
15	Photonics	Electronics Engineering	21-10-2013	25-10-2013
16	PLC	Electrical Engineering	02-09-2013	02-09-2013
17	MATLAB	Electrical Engineering	25-11-2013	29-11-2013
18	Cloud Computing	Computer Engineering	28-10-2013	01-11-2013
19	Emerging Technology	Computer Engineering	26-08-2013	30-08-2013
20	Multi-criteria Optimizatio	Mechanical Engineering	21-05-2012	01-06-2012

# Annexure-E

## Main Extra-Curricular Activities organized in year 2012 and 2013

1. Path of Shri Guru Granth Sahib ji was organised on **15, 16 and 17 March, 2013** for the well being, peace and harmony of faculty, staff and students of our Technical Campus. The Bhog ceremony of this path was held on 17<sup>th</sup> March (Sunday) at 10 am. During this Bhog ceremony Kirtan was performed by Bhai Ravinder Singh Ji (Hazoori Raagi Shri Darbar Sahib, Amritsar).
2. Institute celebrated the 107<sup>th</sup> Birthdays of Shaheed Bhagat Singh ji and 150<sup>th</sup> Birth Anniversary of Swami Vivekanand ji on September, 28<sup>th</sup>, 2013 in which more than 15000 students participated.
3. A seminar was organized on 3 Feb. 2013 to celebrate 150 birth anniversary of Swami Vivekanand ji, in which Sh. Ram Madhav, National Spokesman of RSS has delivered key note address.
4. The institute organized Bharat Jaago Race on 11<sup>th</sup> September, 2013 in which about 3000 students participated. The race was inaugurated by Deputy Commissioner Ferozepur Mr. Manjeet Singh Narang.
5. Institute organized Blood Donation Camp on September 28<sup>th</sup>, 2013 on the birthday of Shaheed Bhagat Singh. One hundred students have donated the blood as a tributes to Shaheed Bhagat Singh Ji.
6. Basant Fest–2013 was celebrated with message of “Saying No to Chinese Dor” in the Main Ground on **8 Feb, 2013**. Two Departmental societies, namely AGNEE of Electrical Engineering and ACME society of Mechanical Engg Deptt had jointly organized this Basant Fest in a mega way. Kite Competitions among Boys and Girls students and Staff were organized during this fest. Gatka performance by Tat Khalsa Khandedhar Academy was main attraction during this Festival.

7. Cultural festival “VIRSA-2013” was celebrated on **19<sup>th</sup> March, 2013**. This time VIRSA 2013 was celebrated at District level and was part of six-day festival to commemorate the martyrdom of Shaheed Bhagat Singh under the banner of Shaheed Bhagat Singh Rajguru Sukhdev Memorial Society, Ferozepur. **Sh Sh. K. D. Bhandri (Chief Parliamentary Secretary, Punjab) was Chief Guest during the occasion. Sh Kamal Sharma, President BJP, Sh M S Narang (DC Ferozepur), Sh Pritam Singh Johal (ADC Ferozepur), Sh G S Pannu (SDM Ferozepur), S Amrik Singh (DPRO Ferozepur) and Sh Jaswinder Singh Sandhu (President Shaheed Bhagat Singh Rajguru Sukhdev Memorial Society)** were present during this cultural festival. The main theme of this cultural festival was to commemorate the martyrdom of Shaheed Bhagat Singh Ji.
8. A Blood Donation Camp was organized by ACHIEVERS Society in collaboration with Lions Club Ashirwad, Ferozepur on **27 Aug, 2013**. Total 66 (sixty six) students donated blood during this Camp. Team of 5 doctors from Civil Hospital, Ferozepur under the leadership of Dr Sushma Sethi came for collection of blood.
9. Van Mahotsava was celebrated on **27 August, 2013** in collaboration with Lions Club Ashirwad, Ferozepur. More than 200 shadowy, fruit bearing and aesthetic tree saplings were planted in the Technical Campus ground on this occasion.
10. Institute has planted more than 200 shadowy, fruit bearing and aesthetic tree saplings in the park near Nescafe Booth in September 2013.
11. Tea Langar with snacks was organized by students on 19<sup>th</sup> Dec, 2013 at the main gate of our Campus to commemorate the martyrdom of four Sahibzadas of Guru Gobind Singh Ji and Mata Gugri Ji. Tea Langar with snacks was organized by students of Polytechnic Wing on 19<sup>th</sup> Dec, 2013 at the main gate of our Campus to commemorate the martyrdom of four Sahibzadas of Guru Gobind Singh Ji and Mata Gugri Ji.
12. NSS unit of Institute organized trees plantation camp in July 2013.
13. NSS unit of Institute organized Environment Cleanliness drive in August 2013

14. Blood donation camp was organized by NSS unit of Institute in August 2013
15. Combined Fresher's part was organized in September 2013 for all branches.
16. Annual Day of NCC was celebrated in October 2013
17. Annual cultural function "JASHAN-2013" was organized in October 2013.
18. Diwali Fete was celebrated with great enthusiasm, zeal and fervour on 28 Oct, 2013. The gala event was organised jointly by ACES Society, of Computer Engineering Department and Achiever's Society of ECE Department. Total 15 stalls were erected during this fete. Many stalls like Archies Gift House, eatables, games, puzzles, Tambola and Games were main attraction of students and outside guests throughout the day.
19. Path of Shri Guru Granth Sahib ji was solemnized in on 16, 17 and 18 March, 2012 for the well being, peace and harmony of faculty, staff and students of our Technical Campus. The Bhog ceremony of this path was held on 18<sup>th</sup> March (Sunday) at 10 am. During this Bhog ceremony Kirtan was performed by Bhai Baldev Singh Ji Vadal (Hazoori Raagi Shri Darbar Sahib, Amritsar).
20. Cultural festival "VIRSA-2012" was celebrated with great pump and show on 27<sup>th</sup> March, 2012. Sh Ravi Gupta, Ferozepur District renowned industrialist and Chairman Devraj Technical Campus was Chief Guest during the glittering function. The cultural events such as Bhangra, Gidda, Choreography on Shaheed Bhagat Singh, Malvai Gidda, Skits (Mimicry by girls and boys), Solo dance, Group Dance, Jodi Dance, Singing (Solo and duet) and Mr Punjabi and Miss Punjab were performed during the function. In this cultural extravaganza various events stated to Punjab culture and new technology were presented. Students of various branches presented their flair and caliber with great enthusiasm.
21. The birthday of hallowed martyr and son of soil Shaheed-Azam-Bhagat Singh, was celebrated with great respect on 28<sup>th</sup> September, 2012. Director of the Campus Dr T S Sidhu, Registrar Sh. Inderpal Singh, Deputy Registrar Sh. Tejpal, faculty / staff



members and students were present during this programme. Students were very enthusiastic during the entire programme. Dr Sidhu in his speech counseled the students to imbibe the principles of great martyr and son of soil Bhagat Singh Ji in real life.

22. Diwali Fete was organized on **1<sup>st</sup> Nov, 2012**. Many stalls of Tambola, DJ on demand, Gift House, Eatables and Games were part of this fete. Students from entire campus, Diploma, B Tech, MBA, MCA, BCA and M Tech celebrated this Diwali fete with great fun and enjoyment. Under best stall Rs500 cash award was won by Ashirwad Gallery.
23. The Estate Office and Polytechnic Wing of our Campus planted more than 200 shadowy, fruit bearing and aesthetic tree saplings in the park near Nescafe Booth.

## **Annexure-F**

### **Main Curricular and Co-Curricular Activities Organised in the year 2013-14**

1. Dr. Jan Borkent, Professor and Expert of PUM Institute of Netherlands has delivered expert lectures from 3.08.2013 to 30 August 2013 to the faculty and students of campus on different areas of technology for enhancing the employability of students as well as to expose the faculty and students to the latest developments in the field of science and technology.
2. Dr. Akshey Sehgal, an Expert of Global Foundry from New York has delivered an expert lecture on corrosion science on 20 November 2013 to the faculty. He also interacted with the students and guided them for higher study and for their future career.
3. A national level Tech-fest “Techno Opus-2014 has been scheduled on 17-19 Feb., 2014.
4. One International Conference on “Computes, Communications and Systems” has been scheduled on 13-14 June 2014.
5. One national level Tech Fest “Techno-Opus 2013” was organized on 13-15 Feb., 2013 in which students from about 35 Institutes participated.
6. Society of Chemical Engineering organized an expert talk in July 2013 on “Paint Technology” by Mr. Kaushik Sehe from Asian Paints Ltd. Rohtak.
7. Society of Chemical Engineering (CheSS ) organized Industrial visit to AB Graino Spirit Pvt. Ltd. and AB Sugar Mill at Gurdaspur on 6th September 2013.
8. Society of Chemical Engineering (CheSS ) organized another industrial visit of students of 5th semester to CIPET, Amritsar on 19th September, 2013.

9. Society of Electrical Engineering (SEE) organized Vision' 13 (Technical Event) on September 11<sup>th</sup>, 2013.
10. Society of Computer Science and Engineering (Compuwave) organized Workshop on Java Technology during September 18<sup>th</sup> to 20<sup>th</sup>, 2013.
11. AREB Society (Association of Revolutionary Engineering Bees), the Extra Curricular Society organized function on co-cuurricular activities on 21<sup>st</sup> September, 2013.
12. Quiz contest organised on 8 Oct, 2013. The winners in the final round were Sanjeev Kumar and Biplob Kagyung of 3rd ECE Diploma were awarded with Rs.1,000/- as prize money. On this occasion students remaining topper in final semester Exams and top five students in 1st MST were also awarded.
13. Essay writing competition was held on 23<sup>rd</sup> October, 2013, which was aimed at creating awareness among youth about the fundamental right to vote in elections.
14. Slogan writing competition was held on October 24<sup>th</sup>, 2013 aiming at sensitizing voters about the importance of participating in the electoral process.
15. Technical events were organized by Society of Chemical Engineering (CheSS ) in October 2013.
16. A Human Chain of Mechanical and Electrical Engineering students constructed on 25<sup>th</sup> October, 2013 in the shape of VOTER STAMP to create awareness among youth to participate in voting.
17. A workshop was organized on Awareness & Education aimed towards improving Electoral Participation in the country on October, 28<sup>th</sup>, 2013. Also, the students participated in Voter Awareness Rally.
18. A seminar on "Anti- Corruption was organized on October 31<sup>st</sup>, 2013 in collaboration with Vigilance Bureau Punjab.

19. A Seminar concerning awareness on Traffic Rules and Drug Abuse was organized on 11 Nov, 2013 with the assistance of SSP Office, Ferozepur and Guru Gobind Singh Study Circle, Ludhiana. Sh Lakhbir Singh, PPS, SP (Headquarter), Ferozepur was Chief Guest during this occasion. Dr Satinder Singh, National Awardee and Sh Harish Monga were Guest of Honour
20. A Mock Test was organised on **21<sup>st</sup> Feb, 2013** in the Campus for giving an exposure and creating confidence among the students appearing for competitive exams which was scheduled on 7 April, 2013. Total 600 students appeared in this Mock Test.
21. A seminar on Moral Education and Human Values was organized on **26 February, 2013**. This key speaker during this Seminar was Sh Gurdev Singh Dhaliwal from Canada.

## Annexure-G

### Job Fairs Organized at SBSSTC

Sr No	Year	Remarks	No. of Students Placed
1	May 2010	A State Level Job fair where students from all the Govt. managed Engg Colleges of Punjab participated. A total of 11 companies participated in the event.	200+
2	Dec 2010 <b>Infosys Joint Campus Placement Drive</b>	Students from the four Govt. managed Engg Colleges of Punjab participated 1. SBSCET-Ferozepur 2. BCET-Gurdaspur 3. MIMIT-Malout 4. GZSCET-Bathinda	157
3	Sept 2011 <b>Infosys Joint Campus Placement Drive</b>	Students from the four Govt. managed Engg Colleges of Punjab participated 1. SBSCET-Ferozepur 2. BCET-Gurdaspur 3. MIMIT-Malout 4. GZSCET-Bathinda	115
4	Sept 2012 <b>Infosys Campus Placement Drive</b>	Campus Placement Drive for SBSSTC	22
5	Oct 2013 <b>Infosys Campus Placement Drive</b>	Campus Placement Drive for SBSSTC	23
<b>Apart from the Joint Campus Placement Drives Mentioned Above, the following companies are our Regular Recruiters :</b>			
Infosys Nestle India Ltd. Sonalika Tractors (International Tractors Ltd.) Enbake Consulting MAX India Trident IOL Indian Army			

# Annexure-H

## Main Sports Events Organised

1. PTU Inter-college cross country events was organized in July 2011, in which 15 athlete from 25 institute participated.
2. PTU inter-college Hockey Tournament was organized in Dec 2011 in which teams from 15 colleges have participated.
3. PTU inter-college Football tournament was organized in Oct 2013 in which 19 teams participated.
4. The Institute organizes Athletic Meet every year and the 16th Annual Athletic Meet will be held in Feb, 2014.
5. Inter-university camp was organized for cross country events.
6. Three day Cricket tournament was organised from **15 to 17 Oct, 2012**. Total 34 teams of boys students and 5 teams of girls students of the Institute participated in this three day cricket tournament. In the final match 'Avengers' team of 3rd year Computer Engg defeated 'Red Bulls' team to win the trophy. Man of the match award was given to Jatinder Singh of 3rd year Computer Engg branch. In the girls final match Stunners team of 3rd year ECE won the trophy. Man of the match award was given to Kumari Chanda of 3rd year ECE. In the faculty final match 'Team D' under the captaincy of Mr Rajesh Singla won by 70 runs. Prof Rajesh Singla scored 107 runs and got Man of the Match prize.
7. Three day Inter Colleges Cricket Tournament was organised from 18 to 20 October,2012. Total nine teams from six Districts participated in this three day tournament. **Sh Surjit Kumar Jayani, Cabinet Minister** in the Department of Forest & Labour, Punjab Government was Chief Guest during the valedictory-cum-prize distribution ceremony. Sh Kamal Sharma, Political Advisor to Chief Minister, Punjab was Guest of Honour during this ceremony. Sh Surjeet Kumar Jayani in his speech

congratulated the winning team and **announced the grant of Rs.5 lacs to the SBS Campus.**

8. Two Day Cricket Tournament was organised on 12th and 13th Nov, 2013 in the College Main Ground jointly by ACHIEVER'S Society of ECE Department and ACES Society of Computer Engineering Department
9. Night Cricket Matches were held from October 26<sup>th</sup> to 30<sup>th</sup>, 2013
10. Three Days Inter Colleges Football Tournament was organized from 10<sup>th</sup> to 12<sup>th</sup> October, 2013.
11. College Basket Ball teams of both boys and girls, Handball teams , Table tennis teams and Badminton teams took part in the PTU inter college tournaments.

# Annexure-I

## **Other achievements of the Institute**

**The brief report on developments of Institute and various works/projects that have been completed/undertaken during the tenure of Dr. T.D. Sidhu after taking over the charge of Principal of Shaheed Bhagat Singh College of Engineering and Technology on 10.10.2008**

This Institute was established in the year 1995 by Govt. of Punjab as an Autonomous body registered under the Societies Act. The institute has a well-planned lush green campus spreads over 98 acres in a pollution free environment. Now with the approval of AICTE and Punjab Govt., the Institute has been upgraded to the level of Technical Campus as “Shaheed Bhagat Singh State Technical Campus”.

**(1) Intake Increased:**

- Initially, during my tenure as Principal since August 2008, the total intake of the students has been increased from 350 to 1370 students per year. At present the total intake of B.Tech Programme is 600, Diploma Programmes- 360, M.Tech. Programmes (Regular and Part-Time)-161, MBA-60, MCA-60, BCA-60 and BSC (IT)-60.
- 65 students are doing Ph.D in different departments. The Institute has also started Part Time B.Tech Programme under the IGNOU for working officials of PSEB, PWD, Public Health and Industry. Further, the Institute is running 10+2 School.
- The Institute has been registered as Vocational Training Provider (VTP) under the Skill Development Scheme of Govt. of India. We have successfully trained 93 students.

**(2) ERP solution Implemented:**

This is the first Institute in Punjab which has implemented ERP Solution in the campus for taking effective and efficient decisions as well as providing timely informations to the students and their parents about their results, certificates etc. etc.



**(3) Convocation and Alumni Meet:**

The 1<sup>st</sup> Convocation and 1<sup>st</sup> Alumni meeting of the college was held in the year 2010-11 and 2<sup>nd</sup> & 3<sup>rd</sup> were held in Feb. 2013 and 18 Feb. 2014, respectively. Hon'ble Technical Education Minister, Sh. Madan Mohan Mittal ji has been invited as Chief Guest.

**(4) Publications**

106 research papers were published in the academic year 2012-13.

**(5) Wi-Fi Campus**

- The Institute has installed WI-FI internet connectivity in 2010-11 in the campus and internet connections are given to all Hostels and staff residences through dedicated fiber optic network. This is the first college among the state managed engineering colleges which has provided dedicated internet connectivity to residences and hostels. We have established computer lab in every hostel of boys and girls.
- CCTV cameras have been installed at all the strategic points of all teaching blocks to maintain proper discipline in the campus.

**(6) Power Supply**

In 2011-12, the Institute has got HOT LINE power supply from PSEB. The Institute has purchased one more Generator of 125 KVA in 2013, in addition to the already purchased two generators of 125 KVA and 250 KVA rating to provide 24 hours power back up facility to hostels and college buildings.

**(7) Estate**

- One teaching block consisting of 24 lecture halls @ cost of Rs. 6.5 Crore has been constructed and will be available for occupation in February 2014.
- One New Girl Hostel has been constructed @ cost of Rs. 5.5 Crore and inaugurated by Hon'ble Technical Education Minister, Sh. Madan Mohan Mittal ji on Feb. 18, 2014.
- Construction of 4<sup>th</sup> Boys Hostel @ cost of Rs. 4.00 Crore is in progress.
- Planted more than 5000 shaded trees in the campus since 2008
- **Sprinkle system has been installed in the playgrounds in 2010-11. It is worth mentioning here that this is the first college in Punjab where water is given to all the playgrounds through Sprinkle System.**

- About 15000 sq ft Parking Area constructed.
- Facilities like Nescafe booth in 2011 and Verka Milk Booth in 2012 have been provided to students in addition to college canteen and juice bar already available in the campus.
- A beautiful park in an area of about 10 acre has been developed in 2012 with proper seating arrangements, fountain, and shed.
- Due to increase of girl and boy students, they have been accommodated by temporarily modifying 12 D-Type houses and 3 A-Type houses to Girl Hostel in 2009-10.
- Tractor and movable water tank were purchased in 2009-10 for maintaining college lawns and plants.
- Glowing sign boards are installed for each building, hostel, residential areas, and for other utilities in 2009-10.
- Quotable quotes have been displayed at different locations in 2010-11 for encouragements and motivation to staff and students
- Furniture purchased for newly constructed Polytechnic and Management Building in 2009-10.
- All street lights and mercury lamps have been replaced with CFL.
- Administrative sections such as Principal/Director office, Account Section, Establishment Section, Academic Section, Store and purchase office, Photostat, diary and dispatch section etc are being shifted to newly constructed Polytechnic building.
- Chairman Office with attached seminar room is provided by modifying the existing rooms.
- The architectural drawings and cost estimate have been prepared for the construction of new Bank Building near the boundary wall.
- The Institute has purchased one innova car and one more Xylo jeep will be purchased in Feb. 2014.

**(8) Scholarships**

In the last 2 years, the college has given scholarships to those students whose bread earner has died naturally or accidently:

<b>Year</b>	<b>Amount</b>	<b>No. of beneficiary students</b>
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2010-11	Rs. 10.63 lacs	36
2011-12	Rs.11.50 lacs	17
2012-13	Rs. 14.92 lacs	43

**(9) Electronic gadget to staff:**

- In 2009-10, all faculty members have been given PCs and also provided internet connections in all the Offices and Labs.
- In 2013, all faculty members have been given Lap-tops.
- Head of Departments have been given I-Pads, air conditioner and sofa set in their offices.
- In 2009, five faculty members were sponsored under Study Leave for doing Ph.D. They have been given full salary and 1/4th of basic pay as a study allowance.