


1.	Name	BALPREET KAUR	 balpreet_kaur@yahoo.com						
2.	Designation	Associate Professor & Head							
3.	Date of Birth	Sept. 01, 1975							
4.	Present Pay Scale	37400-67000 + 9000 AGP (Unrevised)							
5.	Educational Qualifications	<ul style="list-style-type: none"> ✓ Ph.D Thapar Institute of Engg. & Tech., Patiala ✓ M.Tech. (Environmental Sci.&Engg), Punjab Technical Uni., Jalandhar ✓ B.Tech. (Chemical. Engg), SLIET, Longowal 							
6.	Work Experience	<p>Teaching & Administrative Experience: 25 years (approx.)</p> <table border="1"> <tr> <td>Assoc. Prof. at S.B.S. State University, Ferozepur (formerly SBSSTC)</td> <td>20.01.2013 to till date</td> </tr> <tr> <td>Assistant Prof. at S.B.S. State University, Ferozepur</td> <td>17.07.2000 to 19.01.2013</td> </tr> <tr> <td>Lecturer (Adhoc) at Beant College of Engg.Tech., Gurdaspur</td> <td>19.01.1999-15.07.2000</td> </tr> </table> <p>Administrative experience: Head of Deptt. (Chemical Engg.): 23/5/2022-till date</p> <ul style="list-style-type: none"> • Started new branch of B.Sc. Env.Sci in 2022 to cater the needs of Border/rural area of Ferozepur • As Chairman Board of Studies of Chemical Engg. & Env. Sci., framed complete curriculum and syllabus for both streams • Development of labs for newly established BSc. Env. Sci <p>Dy Controller Examination (Conduct & Secrecy): 15/1/2021-23/1/23 Main Responsibilities: Managing the complete conduct of End Sem examination (ONLINE/OFFLINE/Blended) throughout the Academic Year including</p> <ul style="list-style-type: none"> • Handling the examination software for seating plan, student strength, and other examination related activities. 	Assoc. Prof. at S.B.S. State University, Ferozepur (formerly SBSSTC)	20.01.2013 to till date	Assistant Prof. at S.B.S. State University, Ferozepur	17.07.2000 to 19.01.2013	Lecturer (Adhoc) at Beant College of Engg.Tech., Gurdaspur	19.01.1999-15.07.2000	
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		<ul style="list-style-type: none"> • Question Paper Setting from Internal/External Examiners • Issue of instructions to Supdtt. Exams and team members regarding conduct of exams, seating plan, UMC case etc. • Dealing with irregularities/ malpractices during examination • Framing of academic regulations for University <p>Other Responsibilities:</p> <ul style="list-style-type: none"> ➤ Warden Girls Hostel: 2 years ➤ Academic Incharge Department: 4 years ➤ Chief Editor Veronica (college newsletter): 8 years ➤ Editor Department Newsletter(Catalysis): 2years ➤ Deptt. Purchase Officer: 2 years ➤ Deptt. Chief Counselor: 2 years ➤ Project Coordinator: 10 years ➤ NBA accreditation work: 2 years
		<p>Research/ Practical Experience:</p> <ul style="list-style-type: none"> • Worked on many projects on waste water treatment and environmental issues at undergraduate and postgraduate level • Carried out research on CO₂ capture via adsorption from adsorbents prepared from waste plastic. Thus simultaneously addressed two major environmental issues: Disposal of plastic waste and carbon dioxide capture causing global warming
		<p>Industrial Experience: Management Trainee at Maharani Paints Pvt. Ltd, Faridabad 1.07.1998-17.01.1999</p>
6.	Area of Specialization	Environment Science (CO ₂ capture, adsorption, waste water treatment), Polymers
7.	Subjects teaching at	<p>(a)Undergraduate level:</p> <ul style="list-style-type: none"> ➤ Chemical Process Control, ➤ Intro. to Polymer Sci. &Engg. ➤ Rubber and Plastic technology ➤ Polymer Reactor Design ➤ Chemical Reaction Engineering-I ➤ Chemical Process Safety ➤ Chemical Process Calculations ➤ Transport Phenomena ➤ Environmental Science ➤ Industrial pollution Control ➤ Environmental Impact Assessment ➤ Ecosystem Dynamics

		(b) Post Graduate Level	<ul style="list-style-type: none"> ➤ Environmental Engineering ➤ Advanced Polymer Science & Engg.
8.	Total Number of Research Publications (Annexure- A)	Published <ul style="list-style-type: none"> ➤ International Journals - 10 ➤ International Conferences - 07 ➤ National Conferences - 13 	
9.	No. of Students Guided		
	Master's	Completed: 03	
10.	Academic Achievements and Awards	<ul style="list-style-type: none"> • Merit Certificate for standing 2nd in B.Tech. Examinations and securing 1st division with Honors • Merit Certificate for standing 1st in M.Tech. Examinations and securing 1st division with distinction. • Co-Coordinator of Faculty development programme on “Recent trends in Polymers composites & their Engg. Applications” in collaboration with CIPET Amritsar. • Awarded Best Poster Award At 3rd National conference (RACES-2011), held at Modi College, Patiala • Awarded 2nd Prize in poster competition at 4th National conference (RACES-2012), held at Modi College, Patiala • Awarded second prize for major project entitled ‘Removal and recovery of phosphorous from waste water by using magnetite’ in TECHNO-OPUS-2014 organized at SBSSTC, Ferozepur • Awarded third prize for major project entitled “Comparative study of isolation of nano crystalline cellulose from rice husk and wheat straw’ in TECHNO-OPUS-2015 organized at SBSSTC, Ferozepur • Member Board of Studies Chemical Engineering MRSSTU, Bathinda • Chairperson Board of Studies Chemical Engineering SBS State University, Ferozepur 	
11.	Short-Term courses organized as faculty	<ul style="list-style-type: none"> • Green Energy Materials and Technology (2023) • Recent Trends in Polymers, Composites & their Engineering Applications (2013) • One Day workshop on “Application of Chemical Engineering in alternative sources of Energy” In collaboration with IICChE, Doaba (2016) • AICTE Sponsored one day workshop on “Clean Energy Technologies” (2017) 	1 week 1 week 1 week 1 day

12.	Short-Term courses attended	<ul style="list-style-type: none"> • Internet, Web & E-Commerce 	2 weeks
		<ul style="list-style-type: none"> • Industry Institute Interactions-New Challenges 	2 weeks
		<ul style="list-style-type: none"> • Renewable Energy Based Technologies 	1 week
		<ul style="list-style-type: none"> • Intelligent Computational Techniques 	2 weeks
		<ul style="list-style-type: none"> • Business and Soft Skills Development in Institutions 	1 week
		<ul style="list-style-type: none"> • Research Methodology Tools & Techniques 	1 week
		<ul style="list-style-type: none"> • Engineering Materials 	1 week
		<ul style="list-style-type: none"> • Nature Inspired Computational Intelligence 	2 weeks
		<ul style="list-style-type: none"> • Soft Skills for Technical Teachers 	1 week
		<ul style="list-style-type: none"> • Managerial Skills 	1 week
		<ul style="list-style-type: none"> • Futuristic Materials 	1 week
		<ul style="list-style-type: none"> • Analytical techniques for detection of Environmental Pollutants 	2 weeks
		<ul style="list-style-type: none"> • Research Techniques 	2 weeks
		<ul style="list-style-type: none"> • Material Technology & Characterization Techniques' 	1 week
		<ul style="list-style-type: none"> • Optimization using MATLAB through ICT'' 	1 week
		<ul style="list-style-type: none"> • Energy, Environment Sustainable Development through ICT'' 	1 week
		<ul style="list-style-type: none"> • Virtual Instrumentation in Academics, Research and Industry'' 	1 week
		<ul style="list-style-type: none"> • Emerging Materials: Characterization and Applications 	1 week
13	FDPs organized in the institute	AICTE Sponsored STTP on "Mathematical Methods and Computations in Engineering (MMCE-2019)"	1 week
14.	Membership professional bodies	Life Member of ISTE	

(Annexure A)

A. Papers Published in International Referred Journals

1. Sunil Rajoriya, **Balpreet Kaur**, Virendra Kumar Saharan, (2014) “*Kinetics and Isotherm on the Adsorption of Zn (II) from Aqueous Solutions by Natural Biosorbents*” *International Journal of Engineering Sciences & Research Technology* Vol. 3(8) ISSN No. 2277-9655, pp. 17-31
2. Sunil Rajoriya and **Balpreet Kaur** (2014) “*Adsorptive Removal of Zinc from Waste Water by Natural Biosorbents*” *International Journal of Engineering Science Invention* Vol 3(6) ISSN No. 2319 – 6734, pp. 60- 80
3. Harjinder Singh, **Balpreet Kaur**, O.P.Pandey,(2014) “*Reduction of Wolframite Ore with Activated Charcoal to Produce Nano Tungsten Carbide*” *INROADS- An International Journal of Jaipur National University*, Vol 3(1),pp. 276-279
4. **Balpreet Kaur**, Raj Kumar Gupta, and Haripada Bhunia, “**Chemically activated nanoporous carbon adsorbents from waste plastic for CO₂ capture: Breakthrough adsorption study**” *Microporous and Mesoporous Materials*, 2019, 282, pp. 146-158
5. **Balpreet Kaur**, Raj Kumar Gupta, and Haripada Bhunia, “**CO₂ capture on activated carbon from PET (polyethylene terephthalate) waste: kinetics and modeling studies**” *Chemical Engineering Communications*, 2019, 207(8), pp. 1031-1047
6. **Balpreet Kaur**, Jasminder Singh, Raj Kumar Gupta, and Haripada Bhunia, “**Porous carbons derived from polyethylene terephthalate (PET) waste for CO₂ capture studies**” *Journal of Environmental Management*, 2019, 242, pp. 68-80.
7. **Balpreet Kaur**, Rajeev Kumar Garg, Anirudh Pratap Singh, “**Treatment of wastewater from pulp and paper mill using coagulation and flocculation**” *Journal of Environment Treatment Techniques*, 2020, Vol 9(1), ISSN No.2309-1185, pp 158-163.
8. **Balpreet Kaur** and Jitender Kumar, “**Adsorption study on porous carbon derived from pods of Prosopis Juliflora (Kikar) for removal of Pb(II) ions**” *International Journal of Advanced Research in Science and Engineering*, 2020, Vol 9(10), ISSN No.2319-8354, pp. 132-140.
9. **Balpreet Kaur**, Pankaj Kalra, Navneet Kaur, **Prosopis Juliflora (Kikar) pods as adsorbent for removal of Cd(II) ions from aqueous streams**” *Materials Today Proceedings*, 2022, 68 ,pp. 809-816.
10. **Balpreet Kaur**, Pankaj Kalra, Navneet Kaur, **Synthesis of Sugarcane Bagasse Fiber Reinforced Polymer Composite**” *AIP Proceedings(accepted)*, 2022

B. Papers published/presented in International conferences

1. **Balpreet Kaur**, Harjinder Singh, O.P.Pandey, “*Reduction of Wolframite Ore with activated charcoal to produce Nano tungsten Carbide*”, International conference on Innovative Advancements in Engg. & Technology, JNU March 7-8, 2014, Jaipur
2. Niksha Mohindroo, **Balpreet Kaur**, Harjinder Singh, “*High Temperature Polymers: A review*”, Frontiers in Materials Research & Applications (FMRA), October 30-31, 2014, SBSSTC, Ferozepur
3. **Balpreet Kaur**, Gurvinder Singh, Amrinder Singh, Gaurav, “*Synthesis of nanocrystalline cellulose: A review*”, Frontiers in Materials Research & Applications (FMRA), October 30-31, 2014, SBSSTC, Ferozepur
4. Gagandeep Kaur, Gurvinder Singh, **Balpreet Kaur**, “*Comparative study of isolation of nanocrystalline cellulose from rice husk and sugarcane bagasse*, Chemcon 2K15, December 27-30, IIT Guwahati
5. **Balpreet Kaur**, Raj Kumar Gupta, and Haripada Bhunia, “*Carbon dioxide capture and utilization: A Review*”, Chemcon-2018, December 27-30, NIT, Jalandhar
6. **Balpreet Kaur**, Pankaj Kalra, Navneet Kaur, “*Prosopis Juliflora (Kikar) pods as adsorbent for removal of Cd(II) ions from aqueous streams*”, Indo-US International Conferences on Materials & Sustainable Engineering in Chemical and Allied Industry (MSECAI-2022), March 11-12, CU, Chandigarh.
7. **Balpreet Kaur**, Pankaj Kalra, Navneet Kaur, “*Synthesis of Sugarcane Bagasse Fiber Reinforced Polymer Composite*”, Indo-US International Conferences on Materials & Sustainable Engineering in Chemical and Allied Industry (MSECAI-2022), March 11-12, CU, Chandigarh

C. Papers Published in National conferences:

1. Balpreet Kaur, Rajeev Garg, A.P.Singh , “*Optimization of Alum dose as a coagulant for treatment of Pulp and Paper mill waste water* ”, Recent advances in chemical & environment sciences (RACES-2012), Feb.28- Mar.03, 2011, Patiala
2. Balpreet Kaur, Satinder Kaur, Harjinder Singh, “*Bio-Medical waste Management: A review*”, National Conference on waste management and recycling, December 09-10, 2011, SLIET, Longowal.
3. Balpreet Kaur, Harpreet Kaur, Varun Suri, Vikram, “*Variation in COD of Pulp and Paper mill waste water using biodegradable polymer*”, Recent advances in chemical & environment sciences (RACES), March 03, 2012, Patiala
4. Balpreet Kaur, Rakesh Punia, “*Environmental Pollution control by fuel Oil Additives*”, Recent Advances in Chemistry and their impact on Environment, (NCRACE), Feb.4-5, 2012, Panipat

5. Balpreet Kaur, C.P.Singh, “*Environment Management System- A study*”, National Conference on Energy and Environmental Issues related to Chemical industries, EEChem I, Feb.18-19,2012, Agra
6. Balpreet Kaur, C.P.Singh, “*Effect of Environmental Manufacturing Competitiveness for Development for Chemical Industries.*”, National Conference on Energy and Environmental Issues related to Chemical industries, EEChem I, Feb.18-19,2012, Agra
7. Balpreet Kaur, Sarabjeet Kaur, Niksha Mohindroo, “*Moringa Oleifera: A Promising Bio-Coagulant for water purification*”, 6th National Seminar on New Paradigm in Chemical Sciences, Feb. 2013, Patiala
8. Harjinder Singh, Balpreet Kaur, O.P.Pandey, “*Nano Tungsten Carbide*”, Advances in Manufacturing Systems (CAMS), September 5-6, 2014, SBSSTC, Ferozepur
9. Gurbinder Singh, Balpreet Kaur, Harjinder Singh, “*Use of Nanocrystalline Cellulose in Composites*”, Advances in Manufacturing Systems (CAMS), September 5-6, 2014, SBSSTC, Ferozepur
10. Balpreet Kaur and Mehak Jain, “*Photodegradation and Photostabilisation of Polymers*”, Frontiers in Materials Research & Applications (FMRA), 24th December, 2015, SBSSTC, Ferozepur
11. Rahul Kothari, Ayush Arora, Balpreet Kaur, “*Removal of methylene blue from waste water using spent tea as adsorbent*”, Frontiers in Materials Research & Applications (FMRA), 24th December, 2015, SBSSTC, Ferozepur.
12. Gurleen Kaur, Navpreet Kaur, Lovepreet Kaur and Balpreet Kaur, “*Synthesis of natural fiber reinforced polymer composite using sugarcane bagasse*”, Frontiers in Materials Research & Applications (FMRA), 27-28th October, 2016, SBSSTC, Ferozepur
13. Prabhjot Kaur, Harjinder Singh and Balpreet Kaur, “*Cycle Time Reduction by Optimisation of Injection Molding Process Parameters*”, Frontiers in Materials Research & Applications (FMRA), 27-28th October, 2016, SBSSTC, Ferozepur.

D. Invited Talks/ Lectures

1. “Rain water harvesting and water conservation”, held at SBS State Uni., Ferozepur on 2022-05-25-5-2022
2. “MALAB ODE solver and its applications in Engineering Systems”, held at SBS State Uni. (Formerly SBSSTC), Ferozepur on 05-07-2019
3. “Modelling and Simulation of Fixed Bed Absorption Column”, held at SBS State Uni. (Formerly SBSSTC), Ferozepur on 04-07-2019