



1. Name SEEMA SHARMA
2. Date of birth 02 -12 -1969
3. Designation Associate Professor & Head
4. Area of Specialization Synthesis and characterization of inorganic complexes, Environment Chemistry
5. Experience 20 years
6. Official address Department of Chemistry, MRSPTU,
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7. Educational Qualification

Degree Awarded/exam passed	Year of Passing	University/Board	Institute attended	% of marks/ Division
Matric	1985	P.S.Edn.Board	Arya Girls High School, Amritsar, Punjab	85.3/ Ist/Merit
Pre Medical	1987	GNDU, Amritsar	D.A.V.College, Amritsar	69 / Ist
B. Sc (Medical)	1989	GNDU, Amritsar	D.A.V.College, Amritsar	71 / Ist
M.Sc. (Chemistry)	1992	GNDU, Amritsar	Khalsa College, Amritsar	73 / Ist Gold Medalist
B.Ed.	1990	GNDU Amritsar	D.A.V.College of Education, Amritsar	66 / Ist
Ph.D. (Chemistry)	1998	GNDU Amritsar	GNDU Amritsar	By Thesis

8. Title of Ph. D. Thesis :

Study of metal complexes of pyridine thiols and related ligands

Ph D Supervisor : Dr Tarlok Singh Lobana (Retd.), GNDU, Amritsar

9. Teaching Experience in chronological order upto the present post

Organisation	Designation	From	To	Pay Scale (Rs.)
B.A.M. KhalsaCollege,GarhShankar, Distt.Hoshiarpur	Lecturer (Chemistry)	30.07.97	16.09.98	2200 - 4000/-
Beant College of Engg. & Tech., Gurdaspur	Lecturer (Chemistry)	18.09.98	24.08.01	2200 - 4000/-
Giani Zail Singh College of Engg & Tech.,Bathinda	Lecturer (Chemistry)	25.08.01	17.09.02	8000-12000
Giani Zail Singh College of Engg & Tech.,Bathinda	Lecturer(senior scale) Chemistry	18.09.02	01.01.06	10000-15200
Giani Zail Singh College of Engg & Tech.,Bathinda	Assistant Professor	01.01.06	18.09.10	15600-39100
Giani Zail Singh Campus College of Engg & Tech., Bathinda	Associate Professor	18.09.10	Feb, 2016	37400-67000
Maharaja Ranjit Singh Punjab Technical univ., Bathinda	Associate Professor	Feb., 2016	Till date	37400-67000 (G P 9000)

10. Research Contributions

- a) **Projects guided for PG students** : **> 20**
- b) **Students guided for M.Phil Research** : **03(Three)**
- c) **Ph. D. Students Registered** : **06 (Six)**

11. List of students pursuing Ph. D.

Sr No	Name of Student	Registered with	Status of Ph. D.	Supervisor/Co supervisor
1.	Roopjit Kaur	IKGPTU, Jalandhar	Final Viva awaited	Co supervisor
2.	Savita Rani	IKGPTU, Jalandhar	Final Viva awaited	Supervisor
3.	Deepika Rani	IKGPTU, Jalandhar	Pursuing	Co supervisor
4.	Gurpreet Kaur	IKGPTU, Jalandhar	Pursuing	Supervisor
5.	Kamaldeep Kaur	MRSPTU, Bathinda	Pursuing	Supervisor
6.	Swati	MRSPTU, Bathinda	Pursuing	Co supervisor

12. a. Publications in International Journals : 19 (Nineteen)
(Please See Appendix A for detail)

b. Papers presented in National & International Conferences : >25

c. M.Tech. Thesis evaluated : 05 (Five)

11. Memberships of various bodies :

Sr. No.	Type of membership	Association	Membership No.	National/ International
1.	Life member	Punjab Academy of Sciences. Patiala	1029	State
2.	Life member	Indian Women Scientists' association, Mumbai	--	National
3.	Life member	Indian Council of Chemists, Agra	1278	National
4.	Life member	Asian Polymer Association, New Delhi	L-359	International
5.	Life member	The Indian Science Congress	L-27400	National

12. Other information, if any

- i) Recipient of **Junior Research Fellowship** of **G.N.D. University, Amritsar** for its research project **“Metal Complexes Of Pyridinethiols and Related**

Ligands” under supervision of Prof. T.S.Lobana then Professor and Head, Department of Chemistry, Guru Nanak Dev University, Amritsar from May, 1994 to May,1998 for the award of Ph.D. degree.

- ii) Recipient of National Scholarship for standing in the Merit in Matriculation Exam.
- iii) Qualified **GATE-93** with percentile score of **84.83**
- iv) Qualified **JPT-95** (State level lecturership eligibility test)

Appendix A

List of Publications

1. The chemistry of pyridine thiols and related ligands-5, Synthesis and spectroscopy of nickel (II) and copper (II) complexes containing 1-oxo pyridine-2-thione and 2, 2'-bipyridine or 1, 10-phenanthroline, Tarlok S. Lobana, Seema Paul, Trans. Met. Chem., 21(4), 1996, p 300-304
2. Structural studies of copper (II) with triphenyl phosphine oxide, Tarlok S. Lobana, Seema Paul, Abha Gosai. Ind J. of Chem., vol. 36(A)1, 1997, p 82-83
3. The chemistry of pyridine thiols and related ligands-7. Preparation and spectroscopy of mixed ligand copper(I) complexes; The crystal structure of first mixed-ligand dinuclear [iodo (pyridine-2-thione) (tri-p-tolyl phosphine) copper(I)]₂ complex, Tarlok S. Lobana, Seema Paul, A. Castineiras, Polyhedron, vol. 16 (23), 1997, p 4023-4031
4. The chemistry of pyridine thiols and related ligands-9. Synthesis, spectroscopy and crystal structure of bridged dimeric [$\{\eta^3(\text{O}-\mu\text{-S})\text{-1-oxo pyridine-2-thione}\}$ (triphenyl phosphine) silver(I)], Tarlok S. Lobana, Seema Paul, Geeta Hundal, Sangeeta Obrai Trans. Met. Chem., vol. 24, 1999, p 202-205, 1999
5. pyridine-2-thione derivative of Ag(I) and Hg(II): crystal structure of dimeric[(bis diphenylphosphino)ethane)(1-oxopyridine-2-thionato)silver(I)],(2-benzyl sulfanyl)(pyridine-1-oxide)dichloro mercury(II) and phenyl (pyridine-2-thionato) mercury(II), Tarlok S.Lobana, Seema Paul, A. Castineiras J. of chem.. Soc., Dalton Trans., 1999, p 1819-1824
6. A Brief study of various Adsorbents for removal of Ni Metal ions from waste water, Int. Seema Sharma, Savita Rani J. Of Engg. Sciences vol. 3, 2014, p 201-208
7. Reactions of MoOCl₄ & MoO₂Cl₂ with Imidazole, Pyrazole, Acetamide, Succinimide, Benzamide & 2-thiazoline-2-thiol, Gursharan Singh, Seema Sharma, Vikas Magla, Mamta Goyal, Kavita Singla, Deepika Rani Am. Int. J. of Res. in Science, Tech., Engg.& Math. 2015, p 25-31
8. ¹³C and ¹⁷O NMR mono nuclear Carbonyls : A DFT Study, Seema Sharma, Subhash Chander, M. L. Sehgal, Irshad Ahmad Oriental J. of Chem., vol. 31(3), 2015, p 1417-1427
9. Study of Antibacterial Activity of Chenopodium Album Leaves extract , M Kaur, Seema Sharma , Savita Garg , Meenu Arora, Int. J. of Pharmacognosy and Phytochemical Research, 14, 2018, p 1-4

10. Removal of Acid Violet 19 dye from aqueous solution using sawdust of Indian Rosewood (*Dalbergia sissoo*) as adsorbent, , Seema Sharma, Savita Rani, Kirandeep Kaur, Shubham Jindal, Smriti Garg,, Environment & We-An International Journal of Science & Technology 14, 2019, p 49-64
11. Impact of in situ rice crop residue burning on agricultural residue of District Bathinda, Punjab , Roopjit Kaur, Manjeet Bansal, Seema Sharma and Sridevi Tallapragada , Rasayan Journal of Chemistry, 12(2) 2019, p 421-430
12. Estimating area under In situ Crop Residue Burning in District Bathinda, Punjab, India using Satellite Imaginaries, Roopjit Kaur, Manjeet Bansal, Seema Sharma , Environment & We-An International Journal of Science & Technology, 14, 2019, p 37-47
13. Biosorption of Copper(II) ions using timber industry waste based biomass, Rasayan J. of Chemistry, Savita Rani, Seema Sharma, Manjeet Bansal, Kirandeep Kaur, 12(3), 2019, p 1247-1261
14. Adsorption Isotherm, Kinetics and Thermodynamics of bivalent Nickel scavenging utilizing sawdust carbon, Rasayan J. of Chemistry, Savita Rani, Seema Sharma, Manjeet Bansal, Kirandeep Kaur, 12(3), 2019, p 1315-1325
15. Synthesis, characterization, and visible-light-induced photocatalytic activity of powdered semiconductor oxides of bismuth and zinc toward degradation of Alizarin Red S, Water Environment Research, Gurpreet Kaur, Seema Sharma, Priti Bansal, Kirandeep Kaur, 92(9), 2020
16. Visible light responsive heterostructured α -Bi₂O₃/ZnO doped β -Bi₂O₃, Gurpreet Kaur , Seema Sharma , Priti Bansal, Desalination and Water Treatment, 201, 2020, p349-355
17. Reactions of MoCl₅ and MoO₂Cl₂ with 4-Phenylimidazole-2-thiol and 2-Thiazoline-2-thiol, Oriental J of Chemistry, Deepika Rani, Gursharan Singh, Seema Sharma, 36(6), 2020, p41096-1102
18. Reactions of MoO₂Cl₂ and MoOCl₄ with 2-Mercaptopyridine, 4-Phenylimidazole - 2 -thiol and 6-Mercaptopurine monohydrate, Oriental J of Chemistry, Deepika Rani, Gursharan Singh, Seema Sharma, 37(1), 2021, p46-52
19. Reactions of MoOCl₄ and MoO₂Cl₂ with Heterocyclic Thioamides, Oriental J of Chemistry, Deepika Rani, Gursharan Singh, Seema Sharma, 37(2), 2021, p459-466