

CURRICULUM VITAE

Dr. Savita Rani	POSTAL ADDRESS:
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EDUCATIONAL QUALIFICATION

1. Ph.D. from IKG PTU, Jalandhar in 2021 on Topic - Adsorption Of Heavy Metal Ions From Aqueous Solution Using Indian Rosewood Based Adsorbents
2. M.Ed from Punjabi University, Patiala in 2009
3. B.Ed from Panjab University, Chandigarh in 2004
4. Qualified JRF/NET by CSIR-UGC in Chemistry in 2001
5. M.Sc.(Chemistry) from Punjabi University, Patiala in 2001
6. B.Sc. (Medical) from Punjabi University, Patiala in 1999

EMPLOYMENT DETAILS

Designation	Name of Organization	Duration / Tenure
Lecturer	GTB Khalsa Sr.Sec.School,Malout	10-07-2002 to 25-03-2003
Lecturer	Saraswati Sr. Sec. School,Jaitu.Distt.Faridkot	12-07-2004 to 09-01-2007
Lecturer	Baba Farid Public Sr. Sec.School, Bathinda	10-01-2007 to 22-04-2008
Assistant Professor (Chemistry)	Yadavindra College of Engineering, Talwandi Sabo	13-10-2009 to 01/09/2021
Assistant Professor (Chemistry)	Yadavindra Department of Sciences, Talwandi Sabo	02/09/2021 till date

ORIENTATION / REFRESHER COURSES

Name of course	Duration	Name of institute
National Workshop on Environmental Management (equivalent to Refresher Course)	02-09-2019 to 13-09-2019	Teaching Learning Centre, MHRD Govt. of India under PMMMNTT, Central University of Punjab, Bathinda
Orientation Programme	03-10-2013 to 30-10-2013	UGC Academic staff college, Punjabi University, Patiala
Refresher course	01-06-2015 to 20-06-2015	UGC, HRDC, Punjabi University, Patiala

Short Term Course (Online)	01-08-2022 to 08-08-2022	UGC, HRDC, Punjabi University, Patiala
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RESEARCH PAPERS

1. Seema Sharma, Savita Garg, '**A Brief study of various adsorbents for removal of Ni metal ions from waste water**' Research Cell: An International Journal of Engineering Sciences, Issue December 2014, Vol. 3, pp. 201-208, ISSN: 2229-6913 (Print), ISSN: 2320-0332 (Online)
2. Seema Sharma, Savita Garg, '**Application of nanomaterials as adsorbent for effective removal of heavy metal ions from waste water**', Proceedings of National Conf. on Latest Developments in materials, manufacturing and quality control & Environment Engg 2015, pp. 351-356, ISBN: 978-93-5196-055-3
3. Savita Rani, Seema Sharma, Manjeet Bansal '**Adsorption studies on removal of heavy metal ions from waste water using agricultural waste of cereal crops and pulses**', Proceedings of National Conf. on Latest Developments in Civil & Environment Engg 2015, pp. 43-47, ISBN: 978-93-5254-071-6
4. Savita Rani, Seema Sharma and Manjeet Bansal, '**Health and Environmental Hazards of e-waste – A brief study**', Proceedings of International Conf. on Latest Developments in materials, manufacturing and quality control 2016, pp. 521-526, ISBN: 978-93-5212-858-7
5. Kaur M, Sharma S, Garg S, Arora M '**Study of antibacterial activity of Chenopodium album leaves extract**', International Journal of Pharmacognosy and Phytochemical Research, Jan. 2018, Vol. 10(1), pp. 1-4, ISSN: 0975-4873
6. Seema Sharma, Savita Rani, Kirandeep Kaur, Shubham Jindal, Samriti Garg '**Removal of Acid Violet 19 dye from aqueous solution using sawdust of Indian Rosewood (Dalbergia sissoo) as adsorbent**' Environment & We An International Journal of Science and Technology, March 2019, Vol. 14, pp. 49-64, ISSN: 0975-7112 (Print), 0975-7120(Online)
7. S. Rani, M. Bansal, K. Kaur, S. Sharma, '**Biosorption of Copper (II) ions using timber industry waste based biomass**' *Rasayan J. Chem.* 2019, 12(3), pp. 1247-1261.

(Scopus Indexed in the UGC Journal List, Publisher Rasayan Journal, ISSN 09741496, E-ISSN 09760083 As per UGC letter No. F.1-1/2018 (Journals/CARE) dated 14/06/2019)

8. S. Rani, M. Bansal, K. Kaur, S. Sharma, '**Adsorption Isotherm, Kinetics and Thermodynamics of bivalent Nickel scavenging utilising sawdust carbon**' *Rasayan J. Chem.* 2019, 12(3), pp. 1315-1325.

(Scopus Indexed in the UGC Journal List, Publisher Rasayan Journal, ISSN 09741496, E-ISSN 09760083 As per UGC letter No. F.1-1/2018 (Journals/CARE) dated 14/06/2019)

9. Savita Rani, Seema Sharma, Manjeet Bansal, Rishav Garg, Rajni Garg, '**Enhanced Zn(II) adsorption by chemically modified sawdust based biosorbents**' *Environmental Science and Pollution Research* Published Online: 09 September, 2022. Impact Factor-5.8 (2022)

<https://doi.org/10.1007/s11356-022-22963-4>

CONFERENCES

1. Poster presentation on "Comparison of various methodologies and adsorbents to remove Cd metal ions from waste water" at International Conference on "Chemistry for Sustainable Development: Indian Perspective" organized by Indian Council of Chemists at Dubai on 11-13 June, 2014.
2. Paper presentation on "E-pollution: A Chemists perspective" at National Seminar and Workshop on Chemistry-our life-our recognition in society, Colors 2016 organized at Govt. Brijindra college, Faridkot on 19-20 Jan. 2016.
3. Paper presentation on "Comparative study for removal of Ni metal ions through low cost adsorbents from aqueous solution." at 4th international conference AFTMME' 16 organized by Baba Farid College of Engineering and Technology on 25-27 Feb, 2016.
4. Paper presentation on "Adsorption of Ni (II) metal ions from aqueous solution using wheat husk (*Triticum aestivum*)." at 4th International Conference on Advancements in Engg., and Technology organized by Bhai Gurdas Institute of Engineering and Technology, Sangrur, on 18-19 March, 2016
5. Paper presentation on "A study on ionic liquids as green solvents." at National Conference on "Recent Advancements in Science, Commerce and Technology 2016" organized by Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April, 2016
6. Paper presentation on "Green building materials- Need of hour" at National Conference on "Recent Advancements in Science, Commerce and Technology 2016" organized by Mata Sahib Kaur Girls College, Talwandi Sabo on 5-6 April, 2016
7. Paper presentation on "Removal of Ni (II) metal ions from aqueous solution using powder of pods of flea tree (*Albizia lebbek*)" at National Conference on "Current Issues and Opportunities in Emerging Global Business Scenario" organized by Department of Humanities and Management Studies at GZCCET, Bathinda, 7-8 April, 2016.

8. Paper presentation on “Computer hardware waste- A big health hazard” at National Conference on Pervasive computing organized by Post graduate department of computer science at D.A.V college, Bathinda, May 6, 2016.
9. Poster presentation on “Study of Adsorption behaviour of Copper (II) metal ions from aqueous solution using sawdust” at National Conference on “Chemical and Environmental Sciences: Innovations and Advances-2018” organized by Department of Chemistry, Punjabi University, Patiala 15-16 Feb., 2018.
10. Poster presentation on “Removal of Acidic dye from aqueous solution using low cost adsorbent” at National Conference on “Emerging scenario basic and applied sciences for sustainable development” organized by Faculty of sciences, D.A.V college, Bathinda 05 April, 2018.
11. Paper presentation on “Adsorption of Ni (II) ions using acid treated saw dust from waste water” at International Conference on “Advancements in Engg. & Tech.” organized by Bhai Gurdas Institute of Engineering and Technology, Sangrur 15-16 March, 2019.
12. Paper presentation on “Adsorption Characteristics of pretreated saw dust adsorbent for remediation of Zn (II) ions from aqueous solutions” at National Conference on “Recent Advances in Chemical and Environmental Sciences RACES-2019” organized by Department of Chemistry, Multani Mal Modi College, Patiala 11-12 April, 2019
13. Paper presentation on “Nanotechnology: Nature the real motivation” at 2nd National Conference on “Wireless communication and Mathematics (NCWCM’ 19)” organized by Punjabi Univ Guru Kashi College, Damdama Sahib on Dec. 01, 2019
14. Online Paper presentation on “Adsorption studies of bivalent zinc removal using pre-treated saw dust biomass” at National Conference on “Current Advances in material sciences research (CAMSR-2021)” organized by PG Department of Chemistry, JC D.A.V College, Dasuya 27 July, 2021
15. E-poster presentation on “Adsorption Characteristics and removal efficiency studies of processed forms of sawdust towards metallic pollutants” at International virtual Conference on “Chemical research for sustainable development (ICCRSD-2021)” organized by Department of Chemistry, SRM Institute of Science and Tech., Ramapuram, Chennai 24-25 Sept., 2021
16. Poster presentation on “Removal efficiency studies of agricultural waste based biomass for aqueous metallic pollutants” at National Conference on “Recent Advances in Sci. & Tech. for sustainable development” organized by D.A.V college, Bathinda 05 March, 2022.
17. Poster presentation on “Sawdust biomass-An inexpensive adsorbent for Cu (II) ions removal” at 11th National Conference on Recent Advances in Chemical, Biological and Environmental Sciences (RACES-2023) organized by Multani Mal Modi College, Patiala 12-13 April, 2023

18. Invited Lecture on “Bio nanocomposites as emerging adsorbents for remediation of heavy metal ions from aqueous medium: A brief overview” at International Conference on Recent Advances on Green and Sustainable Developments (ICRAGSD-2023) organized by Green Chemistry Network Centre Chapter, Akal University, Talwandi Sabo, Bathinda from 06-09-2023 to 08-09-2023

FACULTY DEVELOPMENT PROGRAMS, SHORT TERM COURSES AND WORKSHOPS/SEMINARS ATTENDED

1. Workshop on “Patent awareness” at YCoE, Punjabi University Guru Kashi Campus, Talwandi Sabo on 11 Dec. 2009
2. Two weeks FDP on “Entrepreneurship development” sponsored by Dept. of Sci. & Tech., GOI, New Delhi conducted by NITCON, Chandigarh. at YCoE, Talwandi Sabo, Jan. 15-28, 2014.
3. One day seminar on “Promotion and Popularisation of Science” at YCoE, Talwandi Sabo on 18 Sept. 2014
4. Workshop on, “Innovations in Science (IIS-2014)” held at YCoE, Punjabi University Guru Kashi Campus, Talwandi Sabo, Bathinda on Nov. 12-14, 2014.
5. Workshop on “Personality development” at YCoE, Punjabi University Guru Kashi Campus, Talwandi Sabo, Bathinda on Nov. 26-28, 2014.
6. Short Term Course on “Water Harvesting, Water Recycling and Water Resource Management" conducted by the Department of Civil Engineering at GZCCET, Bathinda (Punjab) organized by NITTTTR, Chandigarh on 20-24 July 2015.
7. Workshop on, “Innovations in Science (IIS-2015)” held at YCoE, Punjabi University Guru Kashi Campus, Talwandi Sabo, Bathinda on Oct 7-8, 2015.
8. Short Term Course on “Green and Energy Efficient Buildings” through ICT organized by the Department of Civil Engineering at GZCCET, Bathinda (Punjab) on 29 Feb-4 Mar 2016.
9. One day National workshop on “Copy right, Plagiarism and research productivity” organized by Central library at IKGPTU, Kapurthala on Aug. 30, 2016.
10. National Workshop on “Innovations in Science (IIS-2016)”, organized by Science and Environment Club in association with applied Science and Humanities Section Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo September 15-16, 2016
11. One day workshop on “Intellectual property rights” organized by Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo Nov. 18, 2016

12. One day National seminar on “Recent trends in food processing” jointly organized by Indian institute of crop processing tech. & Central univ. of Punjab, Bathinda on Dec. 9, 2016.
13. AICTE recognized Short Term Course on “Curriculum development” organized by NITTTR, Chandigarh at Department of Applied Chemistry at GZCCET, Bathinda (Punjab) on July 10-14, 2017.
14. One day workshop on “ACS on campus” at IISER, Mohali on Feb. 9, 2018.
15. One day workshop on “Intellectual property right” organized by IPR cell, MRSPTU, Bathinda in association with R&D division, GZSCCET, Dept. of Pharmaceutical Sciences & Tech. MRSPTU, Bathinda on March 19, 2018.
16. Workshop on “Scholarly writing & Intellectual Ethics” organized by Dept. of Pharmaceutical Sciences & Tech. in association with Elsevier & IPR cell MRSPTU, Bathinda on Aug. 24, 2018.
17. 4th National Workshop on “Innovations in Science”, organized by Science and Environment Club in association with Applied Science and Humanities Section, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus Talwandi Sabo Oct. 16-17, 2018
18. National Workshop on “Innovations in Science (IIS-2019) ”, organized by Science and Environment Club in association with Applied Science and Humanities Section, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus Talwandi Sabo Nov. 14-15, 2019
19. One week AICTE recognized online FDP on “Nanomaterials and Devices” organized by Applied Sci. Dept., NITTTR, Chandigarh April 27- May 01, 2020.
20. One day online National Webinar on “Intellectual property rights” organized by IPR club, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus Talwandi Sabo on May.23, 2020
21. One week online STC on “Analytical Techniques in the realm of molecules & materials ATRMM-20”, organized by Dept. of Chemistry, SLIET, Longowal from June 26-30, 2020
22. One day webinar on “Sustainable synthesis of metal and metal oxide nanoparticles and their environmental remediation applications” organized by PG Dept. of Chemistry, Saraswati Narayanan College, Madurai, Tamilnadu on July 21, 2020
23. Two days online capacity building program on “Basic tools and techniques for online teaching” organized by Centre for e-learning and teaching excellence, Punjabi Univ. Patiala from July 25-26, 2020
24. One day international webwalk on “Unmasking the silence: Environmental, women and mental health” organized by Eco club & women studies in collaboration with IQAC, Gopi Chand Arya Mahila College, Abohar on Aug. 24, 2020

25. One day online seminar on Women's day organized by Institute of Engineers, local centre, Bathinda YCoE, Talwandi Sabo on March 08, 2021

26. One week online STC on "Analytical Techniques in the realm of molecules & materials ATRMM-21", organized by Dept. of Chemistry, SLIET, Longowal from July 26-31, 2021

MEMBERSHIP OF SOCIETIES

1. Association of Chemistry Teachers (M. No.- LM1097)
2. The Indian Council of Chemists- (AF/7764)
3. The Indian Science congress Association (M. No – LM-L30528)

PERSONAL DETAILS

Father's Name: Sh. Dharam Paul Garg

Mother's Name: Smt. Darshana Devi

D.O.B: Jan., 1978

Sex: Female

Category: General

Nationality: Indian

Marital status: Married

PLACE: YADAVINDRA DEPARTMENT OF SCIENCES, TALWANDI SABO

(Savita)