



Dr. SAURABH MESHRAM

Associate Professor

Department of Chemical Engineering,

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Educational Qualification:

1. Ph.D. from NIT Raipur in Chemical Engineering, 2021
2. M.Tech. from NIT Raipur in Chemical Process Design, 2010
3. B.E. from Ujjain Engineering College, Ujjain, 2005

Teaching and Research Experience

1. Associate Professor, Dept. of Chemical Engg., GGV Bilaspur, Since August, 2023.
2. Assistant Professor, Dept. of Chemical Engg., GGV Bilaspur, Since August, 2011.
3. Lecturer in the Dept. of Chemical Engg., IES-IPS Academy, Indore from August, 2010 to August, 2011.
4. Trainee Engineer in Shree Precoated Steels LTD., Pune (M.H.) from April, 2007 to October, 2007.

Paper Published in National/International Journal

1. Souvik Mukherjee, Kavi Bhushan Singh Chouhan, Altamash Khan, **Saurabh Meshram**, Sharad Chandra Srivastava, Sinchan Das, Varsha Yadav, Arjun Patra, Vivekananda Mandal, An eco-extraction protocol based on blended mode microwave hydrodiffusion and gravity (MHG) principle for floral biomass valorisation through simultaneous recovery of volatile and non-volatile principles: the case of Tagetes erecta, Biomass Conversion and Biorefinery (2024).
2. Saurabh Meshram, Sandeep Dharmadhikari, Raghwendra Singh Thakur, Chandrakant Thakur, Anupam B. Soni, Fixed-bed adsorption of lead from battery recycling unit wastewater-optimization using Box-Behnken method, Journal of Hazardous Materials Advances, 10297 (10) (2023).

3. Saurabh Meshram, Raghwendra Singh Thakur, Ghoshna Jyoti, Chandrakant Thakur, Anupam B. Soni, Optimization of lead adsorption from lead-acid battery recycling unit wastewater using H₂SO₄ modified activated carbon, Journal of the Indian Chemical Society, 99(6) 100469 (2022).
4. **Saurabh Meshram**, Chandrakant Thakur and Anupam B. Soni, Adsorption of Pb(II) from battery recycling unit effluent using granular activated carbon (GAC) and steam activated GAC, Indian Chemical Engineer, (2020). <https://doi.org/10.1080/00194506.2020.1795933>.
5. **Saurabh Meshram**, Chandrakant Thakur and Anupam B. Soni, Taguchi Optimization of Adsorptive Treatment of Effluent from Lead-acid Battery Recycling unit Using Pressmud-a Sugar Industry Waste, Pollution, (2020) 6(4), 879-892. DOI: 10.22059/poll.2020.302442.808.
6. **Saurabh Meshram**, Chandrakant Thakur and Anupam B. Soni, Fixed bed adsorption treatment of effluent of battery recycling unit to remove Pb(II) using Steam Activated Granular Activated Carbon, Journal of Serbian Chemical Society, (2020) <https://doi.org/10.2298/JSC191103015M>.
7. N Chandraker, R S Thakur, **S Meshram**, P K Chaudhari, Removal of fluoride using bagasse adsorbent: Process optimization using response surface methodology, IOP Conference Series: Earth and Environmental Science, (2020) 597 (1), 012016.
8. **S Meshram**, A N Joshi, S Dharmadhikari, R S Thakur, Adsorption of cadmium from water using activated carbon derived from Ipomoea Carnea using chemical impregnation, IOP Conference Series: Earth and Environmental Science, (2020) 597 (1), 012005.
9. **S Meshram**, D Katiyar, T Asha, G P Dewangan, A N Joshi, R S Thakur, Preparation and characterization of activated carbon from spent coffee grounds using NaOH and KCl as activating agents, Journal of the Indian Chemical Society (2020) 97 (7), 1115-1118.
10. **S Meshram**, C Thakur, T R Rahul, S Mishra, Adsorption study of resorcinol onto iron impregnated granular activated carbon, International Journal of Research In Science & Engineering, CHEMCON Special Issue: March 2018", e-ISSN: 2394-8299, 291-296.
11. **S Meshram**, "Cooling of Wash Oil in Benzol Recovery Plant By Using Plate Heat Exchanger", International Journal of Engineering Associates, (2016) 5(7), ISSN: 2320-0804.
12. **S Meshram**, A B Soni; "Decolorisation of dye waste water using organic/inorganic hybridization with growing calcium carbonate", International Journal of Chemical Engineering Research, ISSN 0975 – 6442 Volume 3, Number 2 (2011), pp. 145-152.

Paper Presented in National/International Conference

1. **S Meshram**, Gautam P Dewangan, Anuradha N Joshi, C Thakur, A B Soni, Treatment of lead-acid battery recycling unit wastewater using granular activated carbon modified with nitric acid, CHEMCON 2024: NIT Jalandhar, India 27-30 December, 2024.
2. **S Meshram**, C Thakur, A B Soni, Removal of lead from battery recycling unit wastewater by adsorption onto nitric acid impregnated granular activated carbon, CHEMCON 2018: International conference on seamless chemical engineering in service of humanity: innovations, opportunity and challenges, NIT Jalandhar, India 27-30 December, 2018.
3. **S Meshram**, C Thakur, A B Soni, Lead removal from battery recycling unit wastewater by adsorption onto steam activated coconut shell granular activated carbon, International Conference on Advances and Challenges for Sustainable Eco System (ICACSE 2018), NIT Trichy, 6-8 December, 2018.

4. **S Meshram**, V Dhanuka, Dye wastewater treatment with growing calcium carbonate: kinetics studies, International Conference on Global Scenario in Environment and Energy (ICGSE2 2013), MANIT Bhopal, 14-16 March 2013, ISBN: 978-81-7800-286-6, March 2013, pp. 541-546.
5. **S Meshram**, V S Pavan, N Pandey, C Thakur, Conventional and Non-conventional method for the measurement of lead concentration in aqueous solution, National Conference on Recent Advances in Chemical Analysis (RACA 2017), NIT Raipur.
6. **S Meshram**, C Thakur, T R Rahul, S Mishra, Adsorption study of resorcinol onto iron impregnated granular activated Carbon, CHEMCON 2017, Haldia Institute of Technology, Haldia, 27-30 December, 2017.
7. **S Meshram**, S Dharmadhikari, R S Thakur, A N Joshi, Removal of Cadmium From Synthetic Wastewater Using Rice Husk and Coconut Husk Based Adsorbent, International Conference (Online) On Covid Challenges of Energy and Environment Management for Sustainable Growth of Process Industries (CCEEMSGPI-2021), GGV Bilaspur, 10-11 Sept 2021.
8. **S Meshram**, R S Thakur, G Jyoti, C Thakur, A B Soni, Taguchi optimization of adsorptive removal of lead from wastewater of lead-acid battery recycling unit using sulphuric acid impregnated GAC, International Conference on Advances in Chemical and Environmental Engineering (ACEE-2021), NIT Raipur, 16-17 December, 2021.
9. **S. Meshram**, G. P. Dewangan, A. N. Joshi, A. B. Soni, C. Thakur, Treatment of lead-acid battery recycling unit wastewater using granular activated carbon modified with nitric acid, CHEMCON-2024, NIT Jalandhar, 27-30 December 2024.
10. Rani Besra, Chanchal Kashyap, ***Saurabh Meshram**, victoria blue b remediation by adsorption using carbon black obtained from waste tyre, TEERSD-II, GGV Bilaspur, 12-13 November 2024.

Workshop/FDP Attended

1. National Workshop on "Recent Advancements in Biotechnology & Biochemical Engineering" organized by Department of Chemical Engineering, Institute of Engineering & Science, IPS Academy, Indore, 20-22 October 2010.
2. Faculty Development Programme on "Software Testing, Wireless Computing & ERP" IPS Academy Indore Conducted by Tata Consultancy Services, August 27, 2010.
3. Staff Development Programme on "Recent Trends in Chemical Engineering & Technology" Organized by Department of Chemical Engineering, PIET Nagpur, June 15-25, 2011.
4. One-week short term course on "Advances in Separation Technology" organized by Academic Staff College, GGV Bilaspur, from 6-11 February, 2012.
5. One-week short term training program (STTP) on "Nonlinear Systems: Mathematical Modeling and Computer Simulations" organized by Department of Mathematics, NIT Raipur during 4-8 January, 2016.

6. One-week short term training program (STTP) on “Mathematical Modeling and Computational Techniques in Science and Engineering” organized by Department of Mathematics, NIT Raipur during 14-18 March, 2016.
7. One day workshop on “Recent Challenges & Opportunities in Chemical Engineering”, organized by Dept. of Chemical Engineering, NIT Raipur on 30 January, 2017.
8. One week workshop on “Hands on Training and Writing a Research paper” organized by Dept. of Chemical Engineering, NIT Raipur during 9-13 December 2017.
9. Orientation Programme from 17 December 2018 - 14 January 2019 organized by HRD Centre, GGV Bilaspur.
10. Refresher course on “Recent Advances in Emerging Areas of Engineering, Technical Education & Research (Interdisciplinary)” organized by HRD Centre, GGV Bilaspur from 24 June to 06 July 2019.
11. Workshop on Urkund and Zotero, Central Library, Guru Ghasidas Vishwavidyalaya, Bilaspur, 30 August 2019.
12. One Week Online Faculty Development Program on “Sustainable Environment – An Engineering Perspective, 2020” under TEQIP-III, organized by Department of Civil Engineering, Assam Engineering College Jalukbari, Guwahati, 13-18 July 2020.
13. One-week Short Term Training Programme on “Techno-Economic Solution for Sustainable Municipal Solid Waste Management for Development of Smart Cities in India” Sponsored by AICTE, Organized by Chemical Engineering Department of IPS Academy, Institute of Engineering & Science , Indore, 1-5 September 2020.
14. Webinar on “ART OF WRITING RESEARCH PAPER”. Organized by GGU, Bilaspur, (C.G.) India, 7 November 2020.
15. AICTE sponsored one week online short term training program on “Applications of nanotechnology & nanoscience in science, engineering & technology, Organized by PIET Nagpur, 12-17 July 2021.
16. One Day National Workshop on “Emerging Trend in the Research Areas and Opportunities in Science and Technology”, organized by Research & Development Committee, SOS(E&T), GGV, Bilaspur, (C.G), India, 31 July 2021.
17. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Research Trends in Separation & Purification Techniques" organized by National Institute of Technology Raipur, 13/09/2021 to 17/09/2021.

18. Online Two-Week Interdisciplinary Refresher Course in “ADVANCED CONCEPTS IN DEVELOPING MOOCS”, Teaching Learning Centre, Ramanujan College University of Delhi, In collaboration with Davangere University Davangere, Karnataka under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, 06 – 20 October, 2021.

Workshop/Conference organized

1. Organizing Committee Member in the International Conference (Online) on “Covid Challenges of Energy and Environment Management for Sustainable Growth of Process Industries (CCEEMSGPI-2021)” organized by Department of Chemical Engineering, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India September 10-11, 2021.
2. Member, Five day workshop on “Nanotechnology: upshots in interdisciplinary research”, organized by Dept of Chemical Engineering, IES-IPS Academy, Indore, 2-6 August 2011.

Professional Memberships

1. Associate Member of the Indian Institute of Chemical Engineers, Since March 2018.
2. Member of the The Institution of Engineers (India).

Administrative/Academic Responsibilities at GGV

1. Polling Officer, Students’ election, 2011.
2. Polling Officer, Students’ election, 2012.
3. Member, Scrutiny Committee, 2012.
4. Class In-charge, third year B. Tech. Chemical Engineering, 2012.
5. Member, online data feeding for AICTE, 2012.
6. Member, committee for sanitation and refreshment at the venue, Techfest 2013.
7. Member, Anti-ragging committee, Institute of Technology, GGV Bilaspur, 2013-14.
8. Member, Security and Discipline committee, Techfest 2014.
9. Counting officer, students’ election, 2015.
10. Member, lodging and fooding committee, Techfest 2016.
11. Member, technical event committee, Techfest 2016.
12. Warden, Swami Vivekanand Boys’ Hostel from August, 2013 to August 2016.
13. RTI officer, SVBH, GGV Bilaspur, 2016.

14. Assistant Superintendent, Exam IT, for the session 2018-19.
15. Invited member, BOS, Chemical Engg Dept., 2018.
16. Member, Games and sports committee, 2018-19.
17. Co-Coordinator of B.Tech. First Year for the session 2018-19 and 2019-20.
18. Member, Internal physical verification committee, Chemical Engineering Dept., 2019.
19. Member, Cultural events committee, Techfest 2019.
20. Member, Admission Committee of Department of Chemical Engineering, 2019-2020.
21. Counting officer, students' election 2020.
22. Member, Internal physical verification committee, Chemical Engineering Dept., 2020.
23. Member, SC/ST committee of the SoS, E&T, GGV Bilaspur, 2020-21.
24. Class In-charge, third year B. Tech. Chemical Engineering, 2020-21.
25. Member, Admission Committee of Department of Chemical Engineering, 2020-2021.
26. Member, Admission Committee of Department of Chemical Engineering, 2021-2022.
27. Coordinator, B.Tech Lateral Admission from 2023-24 to 2025-26.
28. Coordinator AICTE 360 degree Feedback committee for 2024-25.