


Professional Profile

Name	Dr. Hari Mohan Meena	
Designation	Associate Professor	
Position	Permanent	
Institution	Department of Chemistry Hansraj College University of Delhi, Delhi -110007. India	
Residence	North West Delhi, India	
Contacts & Email id	+919711580576, 8078666694 harimohanmeena@hrc.du.ac.in mohanhari12@yahoo.com	
ORCID ID	https://orcid.org/0009-0008-2368-8406	

Educational Qualifications

Degree/Qualification	Institution	Division/Grade
Ph.D. (Doctor of Philosophy)	Department of Chemistry, University of Delhi, Delhi	Ph.D. Chemistry
M.Sc (Chemistry)	Department of Chemistry, University of Rajasthan, Jaipur	First
B.Sc (Graduation)	University of Kota, Rajasthan	First
12 th (Sr.Sec.)	Rajasthan Board of Secondary Education, Ajmer, Rajasthan	First
CSIR-HRDG	Human Resource Development Group, Council of Scientific and Industrial Research	JRF-NET
GATE	Indian Institute of Science (IISc), Bangalore	GATE Qualified
CSIR-HRDG	Human Resource Development Group, Council of Scientific and Industrial Research	JRF-NET (2 nd time)

Concise Summary

Working as an Associate Professor in the Department of Chemistry, Hansraj College, University of Delhi, Delhi-110007

Areas of Interest/ Specialization/PhD Thesis Title

- Inorganic Chemistry
- Isolation and Characterization of Heavy Metals and Organic Impurities From Waste Water

Subjects Taught

- Chemistry & Environmental Studies for Chemistry (H), Applied Physical Science, Applied Life Science. Generic Elective Paper in Geology (H), Mathematics (H), Physics (H), Zoology (H), Botany(H).

Publications / Articles

- **H. M. Meena***, S. Kukreti, and P. S. Jassal, "Synthesis, and characterization of novel chitosan coated superparamagnetic iron oxide nanoparticles to optimization for adsorption of mercury from industrial effluent wastewater," *Int. J. Biol. Macromol.*, vol. 306, no. February, 2025, doi: [10.1016/j.ijbiomac.2025.141403](https://doi.org/10.1016/j.ijbiomac.2025.141403). (Elsevier Journal, I. F.-8.5) Scopus-indexed
- **H. M. Meena***, S. Kukreti, and P. S. Jassal, "Graphene oxide/goethite-chitosan composite to optimize adsorption of arsenic (III) from contaminated aquatic solution," *Int. J. Biol. Macromol.*, vol. 318, no. P2, p. 145110, 2025, doi: [10.1016/j.ijbiomac.2025.145110](https://doi.org/10.1016/j.ijbiomac.2025.145110). (Elsevier Journal, I. F.-8.5) Scopus-indexed
- **H. M. Meena***, S. Kukreti, and P. S. Jassal, "Adsorption and estimation of As (III) from wastewater using cross linked Chitosan-STPP nanoparticles with voltammetric analysis computrace, isotherms, and kinetic study," *Results Eng.*, vol. 23, no. May, p. 102467, 2024, doi: [10.1016/j.rineng.2024.102467](https://doi.org/10.1016/j.rineng.2024.102467). (Elsevier Journal, I. F.-6.0) Scopus-indexed
- **H. M. Meena***, Shrikant, K. Pyar, S. Jassal, and A. Kaur, "Novel green magnetite - chitosan adsorbent using Ricinus communis plants to adsorption of lead (II) from wastewater solution : anodic linear sweep voltammetry , isotherms , and kinetics study," *Environ. Sci. Pollut. Res.*, no. Ii, 2025, doi: [10.1007/s11356-025-36107-x](https://doi.org/10.1007/s11356-025-36107-x). (Springer Journal, I. F.-5.8) Scopus-indexed
- **H. M. Meena***, S. Kukreti, and P. S. Jassal, "A case study on cross-linked formaldehyde-chitosan adsorbent to the removal of Zn (II) and Pb (II) ions from wastewater solution: Equilibrium isotherms, kinetics, and desorption studies," *J. Mol. Liq.*, vol. 427, no. October 2024, 2025, doi: [10.1016/j.molliq.2025.127417](https://doi.org/10.1016/j.molliq.2025.127417). (Elsevier Journal, I. F.-5.3) Scopus-indexed
- **H. M. Meena*** and S. Kukreti, "Mechanistic insights into Cd (II) and Zn (II) adsorption on magnetic chitosan / activated biochar : kinetics , thermodynamics , and recyclability," *Inorg. Chem. Commun.*, vol. 189, no. P2, p. 116715, 2026, doi: [10.1016/j.inoche.2026.116715](https://doi.org/10.1016/j.inoche.2026.116715). (Elsevier Journal, I. F.-5.4) Scopus-indexed

- **H. M. Meena***, S. Kukreti, and P. Singh, "Development of Chitosan-Citric Acid Microsphere Crosslinked via Glutaraldehyde for the Adsorption of Chromium (VI) from Wastewater: Adsorption Characteristic and Recycling Study," *Inorg. Chem. Commun.*, vol. 184, no. November 2025, p. 115917, 2026, doi: [10.1016/j.inoche.2025.115917](https://doi.org/10.1016/j.inoche.2025.115917). (Elsevier Journal, I. F.-5.4) Scopus-indexed
- **H. M. Meena***, S. Kukreti, and P. S. Jassal, "Synthesis of a novel chitosan-TiO₂ nanocomposite as an efficient adsorbent for the removal of methylene blue cationic dye from wastewater," *J. Mol. Struct.*, vol. 1319, no. P1, p. 139420, 2025, doi: [10.1016/j.molstruc.2024.139420](https://doi.org/10.1016/j.molstruc.2024.139420). (Elsevier Journal, I. F.-4.7) Scopus-indexed
- **H. M. Meena***, S. Kukreti, and P. S. Jassal, "Study on adsorptive removal of carmoisine azo dye from aqueous solution using the modification of activated carbon from rubber fruit shells and its magnetic composite," *Mater. Res. Innov.*, pp. 1–26, Dec. 2025, doi: [10.1080/14328917.2025.2600256](https://doi.org/10.1080/14328917.2025.2600256). (Taylor & Francis Journal, I. F.-4.1) Scopus-indexed
- **H. M. Meena***, Kukreti, S. et al. Cost-effective adsorptive removal of Congo red azo dye from industrial effluents using magnetic biochar-derived activated carbon. *Nanotechnol. Environ. Eng.* 11, 69 (2026). doi.org/10.1007/s41204-026-00565-6. (Springer Journal, I. F.-3.5) Scopus-indexed
- **H. M. Meena***, S. Kukreti, and P. S. Jassal, "Synthesis of novel Chitosan-Tannic acid adsorbent for removal of Aluminum (III) from wastewater: characterisation, kinetics, equilibrium isotherms and thermodynamic studies," *Adsorption*, vol. 31, no. 2, p. 46, 2025, doi: [10.1007/s10450-025-00604-9](https://doi.org/10.1007/s10450-025-00604-9). (Springer Journal, I. F.-3.4) Scopus-indexed
- **H. M. Meena***, S. Kukreti, and P. Singh, "Fabrication of magnetic chitosan nanoparticles using iron oxide black, their characterization, and efficient adsorption of Zn (II), Cd (II), Pb (II), and Cu (II) ions from wastewater," *Polyhedron*, vol. 291, no. March, p. 118080, 2026, doi: [10.1016/j.poly.2026.118080](https://doi.org/10.1016/j.poly.2026.118080). (Elsevier Journal, I. F.-2.6) Scopus-indexed
- Gupta, Archana, Raman Kumar, **Hari Mohan Meena**, and Gurmeet Singh. "SYNTHESIS OF SUBSTITUTED N-PHENYL beta-LACTAMS USING GRIGNARD REAGENT." *HETEROCYCLIC LETTERS* 5, no. 3 (2015): 323-327. <http://heteroletters.org>

Orientation Programme and Refresher Courses/ Faculty Development Programmes

- **UGC-Sponsored Orientation Programme**, Human Resource Development Centre: from Nov. 17, 2015 to Dec. 15, 2015 held at Centre For Professional Development in Higher Education(CPDHE), University of Delhi, Delhi
- **UGC-Sponsored Refresher Course** in Winter School (IDC), Human Resource Development Centre: from 28th November 2017 to 19th December 2017, held at Centre For Professional Development in Higher Education(CPDHE), University of Delhi, Delhi
- **Faculty Development Programme** (One week) on "Revisiting Gandhi today: question of caste, class, gender, religion and Environment " (17th September-23rd September, 2019) organised by Zakir Husain College, University of Delhi, in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi
- **Faculty Development Programme** (Two weeks) on managing online classes and co- creating moocs:2.0" from May 18-June 03,2020 at teaching learning centre, Ramanujan college University of Delhi, sponsored by the Ministry of Human Resource development pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
- **Faculty Development Programme** (One week) on "open source tools for Research" from June 08- June 14, 2020. At the Teaching Learning Centre, Ramanujan College, University of Delhi, sponsored by the Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
- **Faculty Development Programme** (One week) on "E-content Generation and Managing Online Teaching" From 11th December to 17th December, 2020, organised by Sri Aurobindo College (E), University of Delhi, in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi
- **Faculty Development Programme** (Two weeks) on "Chemistry-The Catalyst for Change" from July 14-July 28,2021 at teaching learning centre, Ramanujan college University of Delhi, sponsored by the Ministry of Human Resource development pandit Madan Mohan Malaviya National Mission on Teachers and teaching.
- **Faculty Development Programme** (Three days) on Digital literacy: An introduction to ICT Skills held on September 15-17,2017 at the Department of Physics and electronics Hansraj College, University of Delhi.
- **Faculty Development Programme** (One week) on Chemistry and biology interface for scientific transformations held on July 25th- 30th,2022, organised by SGT University, gurugram in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
- **Faculty Development Programme** (One week) on Modern scientific technology - ways to enhance research skills held on December 26th- 31st,2022, organised in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, with K R Mangalam University gurugram and Motilal Nehru College, University of Delhi.

Books/Chapters

- **A Chemistry book**, Inorganic and Organic, including practicals for B.Sc (prog.)and B.Sc (general) as per CBCS, **University of Delhi** in 2017, ISBN: 978-93-8622-169-8
- **A Chapter in the book**: Dimensions of Higher Education; Chapter name - Acid Rain: its causes, effects and solution, published by **CPDHE, University of Delhi** in 2016, ISBN: 978-93-85503-19-1

Membership in Editorial Board

- **Member** in Editorial board of Research MaGma, an international multidisciplinary journal "ISSN NO-2456-7078" Impact Factor-4.520
- **Member** in Editorial board of the IJFHST International Journal of Frontiers in Humanity, Science and Technology is an open-access, pedagogic, and peer-reviewed.

Delivered Inspire Lecture and Appreciation Award

- Invited as a **Distinguished Speaker** at the **8th Edition of the Advanced Materials Science World Congress in Rome, Italy**. Presented cutting-edge research on "Graphene Oxide/Goethite-Chitosan Composite for the Optimization of Arsenic (III) Adsorption from Polluted Aqueous Solutions," addressing critical environmental water purification challenges.
- **Delivered a lecture** in INSPIRE-DST SCIENCE CAMP on April 22nd, 2016, organized by the Ministry of Science & Technology, Department of Science & Technology. (DST), **Government of India**, at ACE college of engineering & management, Etmadpur, Agra.
- **The valuable contribution as co-coordinator** on the occasion of the birth anniversary of swami dayanand saraswati on 14th February 2016 at Jawaharlal Nehru stadium Delhi, organized by DAV College Managing Committee.
- **Delivered a Oral Presentation** in the International Conference on Innovative Research in Engineering sciences environment business management and Humanities for Sustainable Development (ESEBH-2023) in Aryabhata DSEU, Delhi, on 25th – 26th March 2023.

Paper Presentations/Chair/Speaker

- **Paper Presentation** on the preparation and characterization of Magnetic Chitosan Nanoparticles, at Aryabhata DSEU, Ashok Vihar Campus, G.T.Karnal Road, Delhi, and Krishi Sanskrit, New Delhi, on 25th- 26th March 2023.
- **Paper Presentation** on Chitosan Nanoparticle Synthesis at International Conference on Recent Advances in Science, Engineering, Technology, and Management (ICRASSETN-2024) held in Dhar, MP on 23rd February 2024.
- **Co-Chair/Speaker** in a Session of an International Conference on Sustainable Development: Current Scenario and Future Direction held in Govt. College Karauli (Raj.) on 29th -30th January 2024.

International/National conferences/Symposium/workshops

- **International Symposium** on Green Chemistry & Sustainable Development on 30-31 March 2012, in Miranda House College, **University of Delhi**.
- **International conference** on green chemistry in environmental sustainability and chemical education (ICGC-2016) organized by the Department of Chemistry, Daulat Ram College, **University of Delhi**, India on 17th – 18th November 2016
- **Indo-UK scoping workshop** on development of rural biorefineries in India: from waste to wealth, jointly organized by Green Chemistry Centre of Excellence (**University of York**), Green Chemistry Network Centre (University of Delhi), and the Energy and Resources Institute, held at the guest house, **University of Delhi**, on 20th February 2017.

- **Indo-Portuguese workshop** on emerging trends of nanotechnology in chemistry and biology (INCB-2016) organized by the Department of Chemistry, Hansraj College & Deshbandhu College, **University of Delhi**, in association with CQM, **University of Madeira, Portugal**, held on 12-13 February, 2016
- National workshop on renewable energy & environment, Deptt. Of Chemistry, Ramjas College, **University of Delhi**, on January 28- 29, 2011
- National Workshop on “Role of Analytical Techniques in Industry” by Indian Society of Analytical Scientists(ISAS) Delhi Chapter in Kirori Mal College, **University of Delhi**. On January 21-22,2010.
- National Seminar on “Role of Analytical Techniques in Biological & Environmental Sciences” by Indian Society of Analytical Scientists (ISAS-DC), Kirori Mal College, **University of Delhi**, on January 27-29, 2011.
- Seminar on Surface Analytical Techniques Organized by Indian Society of Analytical Scientists(ISAS)-Delhi Chapter at Hotel Comfort Inn, Faridabad, on 24th Aug. 2013.
- Workshop on Analytical Chemistry: Bridging Chemistry & Biotechnology in Ramjas College, **University of Delhi**, on 13th -14th December 2011
- Training Workshop on “Green Chemistry: Chemistry for Tomorrow’s World” Organized by Green Chemistry Network Centre, Department of Chemistry, **University of Delhi** in Collaboration with Vigyan Prasar, DST, Govt. of India, on 26th December 2011.
- National Conference on New Frontiers in biosensing organized by the Department of Chemistry, Hansraj College, University of Delhi, held on 3rd April,2021
- Seminar on scientific and technical terminology in higher education held by the Ministry of Human Resource Development at Hansraj College, **University of Delhi**, Delhi on July 23- 24, 2015
- National seminar on “Role of analytical sciences in sustainable development “, held by Indian Society of Analytical Scientists- Delhi chapter (ISAS-DC), Petrotech Society of India, held on March 4-5, 2016, at Hansraj College, **University of Delhi**, India.
- National Seminar on Environment and Sustainability in the Third World at Hansraj College, **University of Delhi** on 28th February, 2020
- Participated in FDP on digital literacy: an introduction to ICT Skills held on September 15- 17th,2017, at Hansraj College, **University of Delhi**.
- Co-Convener in the National Science Day workshop held at Hansraj College, **University of Delhi**, on 27-28 February 2025.
- Organizing the 2nd international seminar sessions of Shakti under the aegis of IQAC featuring Dr. Srinivas Tadepalli, Professor (deptt of chemical engineering al imam mohd. bin Saud Islamic University, Riyadh- Saudi Arabia) on the topic "Removal of Heavy Metal Ions from Industrial Effluents Using Low-Cost Adsorbents in packed bed column" under the Department of Chemistry held on February 22, 2025.

Membership with Professional bodies

Life Membership with the Indian society of analytical scientists[ISAS]-Delhi Chapter- (LM Number- 2013/55).

Certified that the information given above is true and verifiable through certificates and supporting documents.

Dr. Hari Mohan Meena

Department of Chemistry

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