

Dr. Shalini Dwivedi

Assistant Professor,

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Educational Qualifications :

Ph.D (Chemistry) 2009 : H.B.T.I, Kanpur (U.P.Technical University, Lucknow)

Research Area: Polymer Chemistry and Environmental Chemistry.

M.Sc. (1999) Specialization in Organic Chemistry, VSSD College, Kanpur

M.Sc. (2000) Specialization in Inorganic Chemistry, VSSD College, Kanpur

Professional (Teaching/research) Experience :

UG and PG level: 15 years

Worked as Nischit Mandey Lecturer in Chemistry Department, V.S.S.D College, Kanpur from 7 Sept. 2010 to 7 March 2019.

Working as Assistant Professor in Chemistry Department, V.S.S.D College, Kanpur from 8 March 2019 to till date.

Worked as Junior Research Fellow in the project sanctioned by DST, New Delhi from Dec. 2001 to Sept 2004.

Worked as research scholar in H.B.T.I., Kanpur from 10 Dec. 2001 to Dec. 2006.

List of publications:

Research papers published in International journal / National journal / Proceedings:

1. Shalini Pathak, A k. Srivastava , Free radical co-polymerization of butylmethacrylate and linalool with a functional group as a pendant, Designed Monomers and polymers, Designed Monomers & Polymers 8(5), 409-422 (2005) V.S.P.Publisher(U.K).

2. **Shalini Pathak**, A k. Srivastava, Interpenetrating polymer networks of poly (butyl methacrylate) and poly(α -terpineol –co- styrene): Synthesis and characterization, J. Appl. Polym. Sci., 100(1), 343-352(2006) John Wiley & Sons, (USA).
3. **Shalini Pathak**, A k. Srivastava, Synthesis and characterization of functional copolymers of citronellol with butyl methacrylate initiated by benzoyl peroxide, Journal of Applied Polymer Science 112(5):2601- 2608 (2009) John Wiley & Sons, (USA).
4. **Shalini Dwivedi**, Deepti Shikha, Water Pollution : Causes, effects and control. J. Biochemical and Cellular Archives, Vol 16, Supplement 1, pg 96-102 (2016). ISSN No. 0972-5075.
5. Kavita Srivastava, Kiran Singh, **Shalini Dwivedi**, Santosh Kumar Tripathi, Bioremediation : its limitations and recent developments in solid waste management, J. Biochemical and Cellular Archives, Vol 16, Supplement 1, pg 206 - 213 (2016). ISSN No. 0972-5075.
6. **Shalini Dwivedi**, “Polycyclic Aromatic Hydrocarbons: A Review on Sources, Environmental Fate and Effect of Human Health” pg75-85, (2020) published by LAP LAMBERT Academic Publishing, ISBN978-620-3-02487-6 in Proceedings of National Symposium (Effect of Carcinogenic Polycyclic Aromatic Hydrocarbons on environment).
7. **Shalini Dwivedi**, Fundamentals of E- learning System : A Review, Journal of Research Nebula pg.330- 332, 2021, ISSN 2277-8071.
8. **Shalini Dwivedi** , Adulteration in food: An Overview, International Journal of Creative Research Thoughts 10, e836- 843, 2022 ISSN: 2320-2882.
9. **Shalini Dwivedi** “ Significance of Nanomaterials Particle : Applications in New Drug Delivery” World Journal of Pharmacy and Pharmaceutical Sciences vol.11, Issue 4, 2497-2506, 2022, ISSN 2278- 4357.
10. **Shalini Dwivedi** “A Review on Virtual Classroom: Utilization in digital education System” Research Journey, International E. Research Journal, Issue- 297, pg. 29-32, 2022 E- ISSN: 2348-7143.
11. **Shalini Dwivedi**, “A Review on Natural Fiber Reinforced Polymer composite:” pg76-81, (2022) published by LAP LAMBERT Academic Publishing ISBN 978-620-5-50984-5 in Proceedings of Spectroscopic Studies of Nanomaterials

Paper published in edited book / Souvenir :

1. Deepti Shikha, Rita Awasthi and **Shalini Dwivedi**, Green Technology : Towards a better Tomorrow, published in Souvenir of RSS mahavidyalaya, Kanpur organized a national seminar on Environment : Issues and strategies on dt 28 jan 2016.
2. **Shalini Dwivedi**, Deepti Shikha and Neelam Pal , Basic concept of heavy metals bioremediation : An overview of principles and criteria of fundamental processes ; pg. 130-136 (2017) Published Chapter in edited Book ISBN978-81-926984-9-6
3. Deepti Shikha, Rita Awasthi and **Shalini Dwivedi**, An environment friendly Alternative cycling of paint pg210-215 (2017) Published Chapter in edited Book ISBN978-81-926984-9-6. Published Chapter in edited Book ISBN978-81-926984-9-6
4. Neelam Pal and **Shalini Dwivedi**, Emerging trends in waste water chemical treatment processes pg216-221(2017) Published Chapter in edited Book ISBN978-81-926984-9-6. Published Chapter in edited Book ISBN978-81-926984-9-6
5. Deepti Shikha, **Shalini Dwivedi** Enormous Utilizations Of Polymers in the advancement of life pg.70-75(2017) Published Chapter in edited Book ISBN978-93-85420-19-1
6. **Shalini Dwivedi** , “Causes and Consequences of Water Pollution: A Review” pg21-27 (2020), ISBN 978-93-89457-58-2.
7. **Shalini Dwivedi**, “ Natural and Synthetic Biodegradable Polymers: Green Approaches” pg. 302-306 ISBN 978-81-949874-6-8
8. **Shalini Dwivedi**, “ Artificial Intelligence based nanotechnology and creation of Nanoparticle” pg. 267-272 ISBN 978-81-976436-0-6

Papers Presented In International / national seminar/ conferences:

1. Presented Paper in national seminar on development on Scope in Renewable energy entitled “ Application of Nanotechnology in renewable Energy : Green Prospects” on 10-11 Feb., 2025 organized by BND College, Kanpur.
2. Presented Paper in international Seminar on Artificial intelligence and Cyber Law: Challenges and future Prospects entitled “ Exploring Artificial Intelligence in Chemistry:

Applications and Future” on March 21, 2024 organized by Dept. of Law, VSSD College, Kanpur.

3. Presented Paper in national seminar entitled “ Adishankaracharya : Philosophy and Contribution to Hinduism” on 20 March, 2024 organized by VSSD College, Kanpur and Vidya Bharti and Uccha Sikha Sansathan Kanpur Prant.
4. Presented paper in international seminar on climate change and Environmental Issues entitled “Water Quality Parameters : An Overview” On 23-24 Oct. 2024 organized by Govt. girls PG college, Bindki, Fatehpur, UP.
5. Presented paper in international seminar on online teaching and higher Education entitled “ Future Perspective : Online Era” On 19-20 April 2023 organized by Dept. of political science, Govt girls PG college, Bindki, Fatehpur.
6. Presented Paper in national seminar entitled “ Critical Analysis of National Education policy 2020 and its Implantation” on 15 October 2022 organized by Rastriya Sakchik Maha Sangh, UP and CSJM Univ., Kanpur.
7. Delivered oral presentation on “A Review on Virtual Classroom: Utilization in digital education System” in the International multidisciplinary conference held on 19 June 2022.
8. Presented paper entitled “FUNDAMENTALS OF E-LEARNING SYSTEM” in One Day International Interdisciplinary E-Conference On “Benefits of Life Values in Contemporary Social System” held on Thursday 30th September 2021.
9. Presented paper entitled “ Overview of Effective Mentoring in Electronic Learning Environment” in International webinar on “Challenges to higher education Post COVID-19” on 16 May, 2020 organized by Internal Quality Assurance cell of VASANT KANYA MAHAVIDYALAYA, Kamachha , Varanasi.
10. 10. Presented oral presentation on water Pollution in international webinar on “Current Environmental Global Scenario: Issues and challenges” during 30-31 may, 2020.
11. Utilization of Essential oil as food Preservatives
Presented paper as poster in National Seminar on “ Food Chemistry, Processed Food and Toxicology”, sponsored by Board of Management, organized by Deptt. Of chemistry D.A.V. PG College, Kanpur on 25-26 September, 2019.
12. Antimicrobial Activity of Essential oil: A Safe preservation Approach

Presented paper in international conference on ICES 2019 held at HBTI, Kanpur organized by GESA, New Delhi, HBTI, Kanpur, DGPG College, Kanpur, Indian thinker Society, ABRF and Dept. of Biotechnology, Govt. of India on dt. 22-23 Dec., 2019.

13. Fibre Reinforced Composites: Characteristics and Properties

Presented paper as poster in International Conference on “Advances and Textile, Materials and Processes” (ATMP-2018) in collaboration with IIT, Kanpur organized by UPTTI, Kanpur on 19-20 Nov. 2018.

14. Bioremediation of heavy metals from soil and aquatic biota

Presented paper as poster in National Seminar on “ Biodiversity Conversation and sustainable development”, sponsored by UGC, New delhi organized by deptt.Of botany, BND College, Kanpur on 20 Jan. 2016.

15. Phytoremediation : A Green technology For restoration of heavy metal contaminated site

Presented paper as poster in National Seminar on “ Biodiversity Conversation and sustainable development”, sponsored by UGC, New delhi organized by RSS mahavidyalaya, Kanpur on 28 Jan. 2016.

16. Ecofriendly coatings : need of time

Presented paper as poster in National Seminar on “ Biodiversity Conversation and sustainable development”, sponsored by UGC, New delhi organized by RSS mahavidyalaya, Kanpur on 28 Jan. 2016

17. Polymer From Renewable Resources : Terpene Based Interpenetrating Polymer Network (IPN) : Morphological and Thermal Properties

Presented paper as oral in international conference on futuristic materials & emerging trends in chemical sciences (ICOFMAETICS – 2016) organized by Deptt. of Chemistry, DBS College, Kanpur on 8 – 10 feb.,2016.

18. Frontier Area of polymer science : Atom Transfer Radical Polymerization

Presented paper as poster in national workshop on Environmental Degradation Anthropogenic problems and their prospects organized by Harsahai P.G. College, Kanpur.on 23 jan 2013.

19. Interpenetrating Polymer Networks

Presented paper as poster in National Seminar on “ Science for Shaping the Future of India”, organized by ISCA Kanpur Chapter in collaboration with Deptt. Of Zoology, D.A.V. College and D.G. College, Kanpur during 3rd & 4th Dec., 2012.

20. Applicability of Smart Materials

Presented paper in National conference on “Current Concepts & Frontier Advances in Science Educational Research” on March 5-6, 2011, sponsored by University Grant Commission, New Delhi Organized by Department of Chemistry, Tilak Dhari Post - graduate College, Jaunpur (U.P.)

Attended International Conference/ workshops/ short term training Programme / Seminars/ Lecture series / resource person :

1. Attended one week online STTP on ‘ cutting -Edge Chemical Technologies and Industry Relevance’ (CCTIR- 2025) from 3-7 march 2025 organized by Vardhaman College og Engineering, Hyderabad.
2. Participated International short term training Programme IX on Environment Pollution : A Threat to life below water and world environment celebration week” organized by Raj Rishi Govt. Autonomous college from 5-21 june 2023.
3. Give lecture as resource person in national webinar dt 29-30 sept. 2023 on the topic “ Importance of Information and Communication Technology in Higher Education System”
4. Participated in International workshop on “ Art of research paper writing” conducted from 18-20 Nov. 2023 organized by Inspire softech Solutions, Chennai.
5. Attended National Webinar on Women : An Inborn scientist by Nature ” organized by Christ Chruch College, Kanpur on Feb.16, 2022.
6. Attended Webinar- cum Workshop on Crafting an effective Writer : Tools Of The Trade” organized by Dept. Of English, VSSD College, Kanpur on 11th Feb. 2022.
7. Attended on day national webinar on online education in Technical Institutions: A New Normal” organized by Dept. of Paint technology, School of chemical Technology, H.B.T.I, Kanpur on Aug. 27, 2021.
8. Attended International Conference on “ Pandemic And its Aftermath” organized by Dept. of Chemistry, Christ Chruch College, Kanpur on Nov. 8-10, 2020.

9. Participated in workshop by I.I.T. Kanpur & Virginia Tech USAs on “ Water Infrastructure Management for performance, Resiliency and Sustainability” held on 17 – 18 december 2015 at I.I.T., Kanpur.
10. Attended national workshop on Innovative lab Practices through green chemistry on 9 sept., 2015.
11. Attended National seminar on Ancient Indian Science and Technology IIT, Kanpur on 14 october 2015.
12. Attended national seminar on Innovations in Science and technology for inclusive development organized by ISCA Kanpur chapter on 23 to 24 Nov. 2013.
13. Attended 30 hours Prof. P.N. Tandon Memorial week-ends Lecture Series on “Modeling and Computing” during Feb.18 to March 18, 2012 Organized by Department of Mathematics, HBTI, Kanpur.
14. Attended Science Academies’ Lecture Workshop on “Advances in Bio- inorganic and Nano Chemistry” held in D.A.V. (P.G.) College, Kanpur during November 12-13, 2011
15. Participated in National Conference on Advanced Polymers, Fibers and Fabrics (APF² - 2011) held at DMSRDE, Kanpur during December 26-28, 2011.
16. Attended National Seminar on “Multifaceted Scope of Chemistry & Human Welfare” sponsored by U.G.C., New Delhi on 22-23 January, 2011 organized by D. B. S. College, Kanpur.
17. Participated in Green Chem 2010 National Seminar on “Introduction to Green Chemistry Education : Theory and Practice” held at U.P. Merchants Chamber Auditorium, Kanpur during 22-23 October, 2010 organized by V.S.S.D. College, Kanpur.

Professional Training

Analytical course of research entitled “ Solving challenges of chemistry through analysis” held from 06.07.2005 to 26.08.2005 conducted by IIT, Kanpur.

FDP Attended

1. Attended the Faculty Development Program on “Curriculum Development and Evaluation methods in technical education” jointly organized by plastic Technology Department and mechanical Engineering Department, Harcourt Butler Technological Institute, Kanpur under Technical Education Quality Improvement Program (TEQIP) phase II of World Bank, Government of India during July1-6, 2013.

2. Attended the Faculty Development Program on “ Advances in Enzyme production & their industrial application” organized by Biochemical Engineering and Food Technology Department, Harcourt Butler Technological Institute, Kanpur under Technical Education Quality Improvement Program (TEQIP) of World Bank, Government of India during December 19-24, 2013.
3. Attended Faculty Development Program on “ Application of Nanotechnology in textile engineering” organized by UP Textile Technology Institute, Kanpur on 18-23 jan 2016.
4. Successfully completed Faculty Development Programme on “Advancements in Material Characterization Technique” organized by the Department of Plastic Technology and School of Chemical Technology, Harcourt Butler Technical University, Kanpur under Technical Education Quality Improvement Programme (TEQIP- III) of World Bank during December 16-21, 2019.
5. Successfully completed Faculty Development Programme on “ Recent Advancements in Food Processing and Preservation” organized by the Department of Food Technology and School of Chemical Technology, Harcourt Butler Technical University, Kanpur under Technical Education Quality Improvement Programme (TEQIP- III) of World Bank during August 26-31, 2019.
6. Completed Faculty Development Programme on “Expanding Horizon of Bioprocesses” organized by the Department of Biochemical Engineering and School of Chemical Technology, Harcourt Butler Technical University, Kanpur under Technical Education Quality Improvement Programme (TEQIP- III) of World Bank during February 10-15, 2020.
7. Attended Faculty Development Programme on “Expanding Horizon of Bioprocesses” organized by the Department of Biochemical Engineering and School of Chemical Technology, Harcourt Butler Technical University, Kanpur under Technical Education Quality Improvement Programme (TEQIP- III) of World Bank during February 10-15, 2020.
8. Attended Five days online short term training programme on "Bio energy: Technology and Transitions" Jointly organized by NIT, Kurukshetra and Govt. Engg. College, Bikaner from 18-22 may 2020 under TEQIP-III.

9. Attended one week online FDP on “Challenges on Challenges and recent trends in Mathematical Modelling And Scientific Computing” held during dec. 18-22, 2023 organized by Dept. of Mathematics, HBTI, Kanpur.
10. Attended one week online FDP on “ Research Methodology and Research Writing: An Icebreaking Discussions” from 20.01.2025 to 24.01.2025 at Madanapalle Institute of Technology and Science, Madanapalle
11. Attended international FDP programme on Advanced Functional Materials Energy, Environment and sustainable development from 28 Feb. to 6 march 2025 organized by SRM TRP Engineering College, Tiruchirappalli, Tamil Nadu.
12. Attended online national FDP on Security Grants: A Guide to effective Research Proposal Writing” organized by faculty of Science, Gokul Global University, Siddhpur, Gujrat from 06 -12 march 2025.

Orientation Course / Refresher Course / Faculty Development Programme:

1. Successfully completed a 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from June 04 - July 01, 2020 and obtained **Grade A** organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
2. Successfully completed Two Weeks Faculty Development Programme on "ADVANCED CONCEPTS FOR DEVELOPING MOOCS" from July 02 - July 17, 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
3. Successfully completed Inter disciplinary Refresher Course on "Managing online classes & Co-creating MOOCS 5.0" from 11 – 25 May, 2021 and obtained **A⁺** organized by Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.

4. Successfully completed Inter disciplinary Refresher Course on "Managing online classes & Co-creating MOOCS 8.0" from 04 – 18 september, 2021 and obtained A⁺ organized by Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by MINISTRY OF HUMAN RESOURCE DEVELOPMENT PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING.
5. Successfully completed online Interdisciplinary Refresher course on climate change and Human Health” from Jan 08 to Jan 21, 2024 and obtain grade A. organized by university of Allahabad.

Other Activities :

- Worked as active member of centre of excellence, VSSD College, Kanpur in 2018
- Worked as AS in Examination Duties in year 2022.
- Worked as in admission committee in BSc second year in 2016-2017, 2019-2020, 2021-2022, 2022-2023, 2023-2024.
- Worked as in admission committee in BSc third year.
- Actively involved in departmental student related activities as PG Chemical Society and Ecofriendly club.
- Working as member in chemical awareness group in departmental club activity.
- Worked as member of Sustainability (Green Initiatives) (10.1) committee of NAAC.

Member of Academic bodies:

- Life member of The Indian Science Congress Association : L15100
- Life member of Indian Thinker Society: Regd No. 1272
- Worked as judge in 27th district meet of national children science congress 2019 held at Onkareswar Saraswati Vidya Niketan Inter College, Kanpur.
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