

## CURRICULUM – VITAE

**Dr. VIDYA SINGH**

(Assistant Professor)

Department of Chemistry

Maharana Pratap Govt. P.G. College, Hardoi

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### **Professional qualifications**

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2016	Ph.D., Chemistry, Motilal Nehru National Institute of Technology, Prayagraj, Deemed University
2014	CSIR NET, Chemical Sciences, CSIR, New Delhi
2009	M. Sc., Chemistry, C.S.J.M. University, Kanpur
2006	B. Sc., Chemistry, Physics, Maths, C.S.J.M. University, Kanpur

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### **Ph.D.**

Awarded: 17/04/2016

Title of Thesis: Modelling Granule Size and Performance Evaluation of UASB  
Reactor Treating Low Strength Wastewaters

Institute: Department of Chemistry, Motilal Nehru National Institute of  
Technology (M.N.N.I.T), Prayagraj, U.P, India

Supervisor (s): Prof. N. D. Pandey, Prof. R. P. Singh

### **Area of teaching & Research:**

Inorganic Chemistry, Physical Chemistry, Synthesis of Inorganic- Organic  
Hybrid Materials, Synthesis of Metal Organic Framework (MOF) &  
Nanoparticles, Waste water treatment

### **Teaching experience:**

- Currently worked as an Assistant Professor in Department of Chemistry,  
Maharana Pratap Govt. P.G. College, Hardoi, U.P. India

- Work as Guest Faculty in Department of Chemistry, Central University of Allahabad, Allahabad (2015-2017).

### **Publications:**

1. P. Mishra, P. Sharma, V. Singh, N.K. Singh, (2023) “Strontium-doped Lanthanum nickelate (LaNiO<sub>3</sub>) nano-materials for alkaline water splitting”, *Bulgarian Chemical Communications*, 55A, 119-125.
2. Balram Singh, Vidya Singh (2023). “Role of NAAC Accreditation on Quality of Higher Education Institutions”, *International Journal of Multidisciplinary Educational Research*, 12, 9(2), 6-14. (ISSN No. 2277-7881).
3. Amreen Naz, Shiva Arun, Vidya Singh, Shahid Suhail Narvi, Mohammad Siraj Alam, P.K. Dutta (2022). “Efficient and reusable Cu (II)-metalated silica-based inorganic-organic hybrid catalyst for dye degradation”, *Journal of the Indian Chemical Society*, 99, 1-8.
4. Vidya Singh, S.S. Narvi, N. D. Pandey (2017). “Influence of polymer addition on granulation in upflow anaerobic sludge blanket reactor: A review”, *International Journal of Applied Environmental Sciences*, 12, 1561-1573.
5. Vidya Singh, S.S. Narvi, N. D. Pandey (2017). “Modelling of Granule Diameter in UASB Reactor: a Mathematical Approach”, *Advances in Computational Sciences and Technology*, 10, 2721-2728.
6. Vidya Singh, R. P. Singh, N. D. Pandey (2016). “Evaluation of Dynamic Performance in Terms of Effluent COD and Biomass concentrations of UASB Reactor Treating Low Strength Wastewater”, *International Journal of Applied Science-Research and Review*, 3 (1), 050-063.
7. Vidya Singh, N. D. Pandey (2016). “A Comparison of Performance of ADM1 and Monod Model Treating Low Strength Wastewater”, *Materials Today: Proceedings*, 3, 4157-4162.

8. Vidya Singh, R. P. Singh, N. D. Pandey (2016). “Dynamic and Steady State Performance of Upflow Anaerobic Sludge Blanket Reactor”, *International Journal of Engineering Sciences & Research Technology*, 5(8), 235-245. (DOI: 10.5281/zenodo.59538)
9. Vidya Singh, N. D. Pandey (2016). “Non-Linear Regression Analysis in Upflow Anaerobic Sludge Blanket Reactor”, *International Journal of Engineering Sciences & Research Technology*, 5(4), 139-146.

#### **Published books:**

- Software Applications of UASB Reactor, 2017, (ISBN No. 978-620-2-06973-1), Publisher- LAP LAMBERT Academic Publishing, Beau Bassin, Mauritius.

#### **Book Chapters:**

1. Balram Singh, Vidya Singh, “Digital Learning Technology: Higher Education Transforming Pedagogical Style” Published in Quality Enhancement in the Indian Education System: Role of NEP 2020, (ISBN No. 978-93-94424-40-1), (Edition, 2023)
2. Balram Singh, Vidya Singh, “Impact and Strategies for Education Sector in India During COVID-19” Published in Covid-19 and Its Impact on the Indian Economy. (ISBN No. 978-93-83637-88-1), (Edition-1,2022)
3. Vidya Singh, “Wastewater Treatment: UASB Reactor and It’s Process Mechanism”, Published in Advanced Engineering Research and Applications, (ISBN No. 978-93-87374-54-6), (Edition, 2018)

#### **Induction/Orientation Programme/ Refresher Course:**

1. Two Week **Refresher course** in “Chemistry” from 14 September–28 September 2023 organised by HRDC, AMU, Aligarh.
2. 4 Week **Faculty Induction Programme** for “UGC Sponsored online Faculty Induction Programme” from 8 February – 22 March 2022 organized by HRDC, AMU, Aligarh.

3. One Week **Short Term Course on Academic Writing** from 11 May–18 May 2022 organised by HRDC, AMU, Aligarh.
4. One Week **Short Term Course on Quality in Research** from 21 September–27 September 2022 organised by HRDC, AMU, Aligarh.

**Session Chair/Invited Talk/Expert Lecture:**

1. **Invited talk** on intitled “Emission Properties of NSs Under the Effect of Magnetic Field” in Babu K.N. Singh Memorial National Conference on Recent Advances in Physical and Biological Sciences (RAPBS-24), 28-29 March, **2024** organized by Department of Physical & Electronics Kamla Nehru Institute of Physical & Social Sciences, Sultanpur.
2. As a **resource person** invited talk on intitled “Green Chemistry and its importance in human life” in international conference on advancement in natural sciences: Vedic to modern era, ICANSVME -24, 22-24 February **2024** at Shri Ramswaroop Memorial University, U.P.
3. **Technical Session Chair** in 2<sup>nd</sup> National Conference on Computational & Characterization Techniques in Engineering & Sciences during, February 27-28, **2023** at Department of Applied Science & Humanities, Rajkiya Engineering College Ambedkar Nagar, U.P.

**Papers presented in internationals/national conferences/seminars:**

1. Two days National Seminar on “Higher Education in India: Approaches, Innovations and Quality Concerns” sponsored by Department of Higher Education, Govt. of Uttar Pradesh, January 20-21, **2023**, entitled as Significance of e-learning for students in higher education organized by Netaji Subhash Chandra Bose Govt. P.G. College, Aliganj, Lucknow.
2. 2<sup>nd</sup> National Conference on “Computational and Characterization Techniques in Engineering & Sciences (CCTES-23)”, February 27-28, **2023**, entitled as A Computational Study for Granule Diameter in UASB Reactor organized by Department of Applied Science & Humanities, Rajkiya Engineering College, Ambedkar Nagar.

3. International Seminar on “Aazadi ka Amritkaal: Global Welfare Through Indian Knowledge System”, October 07, **2023**, organized by Km. Mayawati Government Girls P.G. College, Badalpur, Gautam Buddha Nagar (U.P.)
4. Two days National Seminar on “Green Economy and Sustainable Development: Concept of New India” sponsored by Department of Higher Education, Govt. of Uttar Pradesh, March 26-27, **2022**, organized by Government Degree College Jakhini, Varanasi, U.P.
5. National Conference on “Bio Diversity Conservation: Current Status and Future Strategies”, sponsored by Higher Education Department, Government of Uttar Pradesh, March 4-5, **2017**, Entitled as Toxic Chemicals in the Environment, Their Sources and Toxic Actions.
6. National Conference on “Role of Science and Technology in Socio Economic Development”, organized by Dr. B.R. Ambedkar Government Degree College, Mainpuri, February 28-29, **2016**, entitled as CSTR Model: Performance of Upflow Anaerobic Sludge Blanket Reactor.
7. National Conference on “Recent Advances in Mathematics and Its Computational Aspects”, organized by Shaheed Mangal Pandey Govt. Girls P.G. College, Madhavpuram, Meerut, November 11-12, **2016**, entitled as Anaerobic Treatment of Municipal Wastewater in UASB Reactor –I.
8. International Conference on “Emerging Technologies in Science, Engineering & Management”, organized by Dr. K.N. Modi Institute of Engineering and Technology, Modinagar, April 23-24, **2016**, entitled as Application of CSTR Model in UASB Reactor.
9. International Conference on “Recent Trends in Physical Sciences (CONIPUS XVIII)”, Faculty of Science, University of Allahabad, December 22-24, 2015, entitled as Software Applications in UASB Reactor.

**Attained workshop:**

1. National Workshop on NAAC-Revised Accreditation Framework sponsored by Department of Higher Education, Government of Uttar Pradesh, March 13-14, **2023** in Khwaja Moinuddin Chishti Language university Lucknow.
2. Workshop on “Current Advances in Applied Biotechnology”, Held During October 13-19, **2016** in M.N.N.I.T Allahabad.
3. Workshop on “Chitin & Chitosan Science: A Research Gateway”, Held During December 14-20, **2016** in M.N.N.I.T Allahabad.
4. Workshop on “Instrumental Methods of Chemical Analysis” Held During February 22-28, **2016**, in Department of Chemistry, Ewing Christian College, Allahabad.
5. Workshop on “Disasters and Their Management (WDM-2014)”, Held During May 29-31, **2014**, in M.N.N.I.T Allahabad.

**Dr.Vidya Singh**