

CURRICULUM – VITAE

Dr. VIDYA SINGH

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Professional qualifications

COURSE	BRANCH	YEAR OF PASSING	INSTITUTE	UNIVERSITY	CPI/ %AGE	REMARKS
CSIR NET	Chemical Sciences	2014	CSIR, New Delhi			034/0792 rank
Ph. D.	Chemistry	2016	Motilal Nehru National Institute of Technology, Allahabad	Deemed University	Awarded	-
M. Sc.	Chemistry	2009	B.N.D. PG College, Kanpur	C.S.J.M. University, Kanpur	69.6 %	1 ST Div.
B. Sc.	Chemistry, Physics	2006	B.N.D. PG College, Kanpur	C.S.J.M. University, Kanpur	61.9 %	1 ST Div.

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

Software literacy

1. Fundamental knowledge of MATLAB software, Gate data and origin softwares.
2. By using MATLAB software solve the non-linear regression analysis, simple and simultaneously differential equations.
3. A lot of practice in MS-OFFICE and Microsoft Excel software.

Area of teaching interest

Inorganic Chemistry, Physical Chemistry, Spectroscopy

Area of research interest

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

Recent publications

1. 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.
2. 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.
3. 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.
4. 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.
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). "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)
7. 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:

1- Software Applications of UASB Reactor

(ISBN No. 978-620-2-06973-1)

Publisher- LAP LAMBERT Academic Publishing, Beau Bassin, Mauritius, 2017

2. Advanced Engineering Research and Applications

Publisher- Research India Publication, RIP, India, 2018

Chapter: Wastewater Treatment: UASB Reactor and It’s Process Mechanism

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

1. Paper Entitled “Toxic Chemicals in the Environment, Their Sources and Toxic Actions”
National Conference on Bio Diversity Conservation: Current Status and Future Strategies,
Higher Education Department, Government of Uttar Pradesh, March 4-5, 2017.
2. Paper Entitled “CSTR Model: Performance of Upflow Anaerobic Sludge Blanket Reactor”
National Conference on Role of Science and Technology in Socio Economic Development,
Dr. B.R. Ambedkar Government Degree College, Mainpuri, February 28-29, 2016.
3. Paper Entitled “Anaerobic Treatment Of Municipal Wastewater In Uasb Reactor –I ” National
Conference on Recent Advances in Mathematics and Its Computational Aspects, Shaheed
Mangal Pandey Govt. Girls P.G. College, Madhavpuram, Meerut, November 11-12, 2016.
4. Paper Entitled “Application of CSTR Model in UASB Reactor” Presented in International
Conference on Emerging Technologies in Science, Engineering & Management, Dr. K.N.
Modi Institute of Engineering and Technology, Modinagar, April 23-24, 2016.
5. Paper Entitled “Software Applications in UASB Reactor” Presented in International
Conference on Recent Trends in Physical Sciences (CONIPUS XVIII), Faculty of Science,
University of Allahabad, December 22-24, 2015.

Attained workshop:

1. Workshop on “Current Advances In Applied Biotechnology”, Held During October 13-19, 2016 In M.N.N.I.T Allahabad.
2. Workshop on “Chitin & Chitosan Science: A Research Gateway”, Held During December 14-20, 2016 In M.N.N.I.T Allahabad.
3. Workshop on “Instrumental Methods Of Chemical Analysis” Held During February 22-28, 2016, in Department Of Chemistry, Ewing Christian College, Allahabad.
4. Workshop on “Disasters and Their Management (WDM-2014)”, Held During May 29-31, 2014, in M.N.N.I.T Allahabad.

Declaration

I hereby solemnly declare that all statements made in the above are true and correct to best of my knowledge and belief.

Date: 14/12/2022

Place: Hardoi

Dr. VIDYA SINGH

Assistant Professor (Chemistry)

Maharana Pratap Govt. P.G. College,

Hardoi, U.P. India