

CURRICULUM VITAE

Dr. Neha B. Gautam (Deshmukh)

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OBJECTIVE

To seek a challenging and rewarding career in an organization this provides avenues for continuous growth utilizing my creativity and zeal to learn.

1. ACADEMIC QUALIFICATIONS

- Ph.D in Chemical Engineering from Visvesvaraya National Institute of Technology(VNIT), Nagpur in the year Jan-2022.
- M.Tech in Chemical Technology from University Department of Chemical Technology S.G.B.A.U., Amravati in the year June-2016 with 8.41 CGPA.
- B.Tech in Chemical Engineering from Priyadarshini Institute of Engineering & Technology, Nagpur (University - R.T.M.N.U., Nagpur) in the year May- 2013 with 77.24%.
- Higher Secondary Examination from Adarsh Vidyalaya, Amgaon, Tq. Amgaon, Dist. Gondia (Board: M.S.B.S.E., Pune) with 78.83% in 2009.
- Matriculation from Adarsh Vidyalaya, Amgaon, Tq. Amgaon, Dist. Gondia (Board: M.S.B.S.E., Pune) with 76.76% in 2007.

2. PROFESSIONAL EXPERIENCE

- Assistant Professor on Contract Basis in University Institute of Chemical Technology, North Maharashtra University, Jalgaon (Maharashtra) from 2 Jan-2017 to 1 Dec-2017.

3. RESEARCH PROJECTS

- **Ph.D:** Experimental and Computational Studies on Pyrolysis and Gasification Processes for Different Products.
- **M.Tech:** Bioethanol Production from Treatment of Potato Processing Wastewater using Membrane Technology.
- **B.Tech:** Thermal Cracking of Plastic Waste into Fuel.

4. RESEARCH PUBLICATIONS

- Neha Gautam, Ashish Chaurasia, “Study on kinetics and bio-oil production from rice husk, rice straw, bamboo, sugarcane bagasse and neem bark in a fixed-bed pyrolysis process”, *Energy*, Volume 190, 1 January 2020, 116434 (Elsevier publication, IF 7.147).
- Neha Gautam, Athira Merlin Rose K. V., Ashish Chaurasia, “Study on chemical kinetics and characterization of nanosilica from rice husk and rice straw in the fixed-bed pyrolysis process”, *Biomass Conversion and Biorefinery*, <https://doi.org/10.1007/s13399-020-00838-3> (Springer publication, IF 4.987).
- N. Gautam, G Kate, A Chaurasia, ” Upgrading of rice husk char obtained by pyrolysis process to amorphous silica and activated carbon”, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2020.04.859> (Elsevier publication, IF 1.46).
- Neha B Gautam, Ganesh U Kate & Ashish S Chaurasia, “Production of amorphous silica and activated carbon from rice husk char obtained from two stage gasification process”, *Indian Journal of Chemical Technology*, Vol. 27, July 2020, pp. 340-345 (NISCAIR publication, IF 0.57).
- Neha Gautam, Ashish Chaurasia, “Study on Chemical Kinetics and Catalytic Cracking of tar from gasification of rice straw using various catalysts”, *Journal of Material Cycles and Waste Management*, <https://link.springer.com/article/10.1007/s10163-021-01307-3> (Springer publication, IF 2.9).
- Neha Gautam, V.S. Sapkal R.S. Sapkal, “Production of Bio-ethanol from Potato Processing Wastewater using Membrane Technology”, *International Conference Proceeding ICGTETM*, Dec 2017, ISSN: 2320-2882.

5. CONFERENCES

- Neha B. Gautam, Ashish S. Chaurasia, “Studies on Optimization of Kinetic Parameters in Pyrolysis of Different Biomass Species”, *CHEMCON-2019* in IIT Delhi, from December 16-19, 2019.
- Neha B. Gautam, Ashish S. Chaurasia, “Production of Bio-oil through Pyrolysis of Rice Husk using Plug Flow Pyrolysis Reactor” presented poster on Conference on the Advances in Process Metallurgy in IISc Bangalore, from July 4-5, 2019.
- “Bio-oil Production from Pyrolysis of Rice Husk using Fixed Bed and Plug Flow Reactors” Presented poster in 3rd Research Scholars Day -2019 in VNIT, Nagpur from 8th to 9th Feb 2019.
- Paper Presentation entitled, “Production of Bio-ethanol from Potato Processing Wastewater using Membrane Technology” on *Global Trends in Engineering, Technology and Management-2017* organized by SSBT’S College of Engineering and Technology, Jalgaon from 22th to 24th Dec 2017.
- Paper Presentation entitled, “Energy Generation from Treatment of Wastewater of Potato Processing using Membrane Technology on *REACT-2016* organized by Laxminarayan Institute of Technology, Nagpur from 27th to 28th Feb 2016.
- Paper Presentation entitled, “Recycling of Medical Waste” on *NCOAT-2012* organized by Priyadarshini Institute of Engineering & Technology, Nagpur from 2nd to 3rd March 2012.

- Participated in the In-house Program on Best Practices in Teaching – Learning Methods and NBA Accreditation Process on 22th to 26th March at University Institute of Chemical Technology, North Maharashtra University, Jalgaon.

6. INDUSTRIAL TRAINING

- 6 days in plant training in between 21st to 26th Nov 2011 on “Fluid flow, Unit operation & Unit process with Plant visit” at Rashtriya Chemical Fertilizers (RCF) Ltd, Chambur, Mumbai.

7. COMPANIES VISITED

- Rashtriya Chemical Fertilizer Ltd, Chambur, Mumbai
- Purti Sugar Industry, Bela, Nagpur
- Dinshaws Ltd. Nagpur
- Morarji Textiles Ltd. Nagpur

8. TECHNICAL KNOWLEDGE

- Handling of instruments like UV spectrophotometer and gas chromatography
- Knowledge of C languages and COMSOL software
- Command over windows operating system, MS-office, Internet handling

9. OTHER

- Qualified GATE-2014 examination
- IInd rank in R. T. M. Nagpur University, Winter-2011 B.Tech. Chemical Engineering

10. PERSONAL DETAILS

- Date of Birth : 15 February 1992
- Marital Status : Married
- Language Known : English, Marathi and Hindi

DECLARATION

I hereby declare that the information furnished above is true to best of my knowledge & Belief.

Place: Nashik

Date: --/--/----

Dr. Neha B. Gautam (Deshmukh)