



Prof. NAINA SHIREESH DESHMUKH

Assistant Professor, Department of Chemical Engineering

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OVERVIEW:

Qualifications: Ph D (Pursuing), M-tech.(Chemical), BE (Chemical)

Experience: Teaching - 8 years , Industrial – 4 years

Date of Joining STES: 10/06/2019

Skills and Proficiencies: Simulation in Chem-CAD

AREA OF EXPERTISE /RESEARCH INTERESTS:

Waste water Treatment, Nano catalyst

NUMBER OF STUDENTS GUIDED:

- UG – 12+ Groups

RESEARCH PULICATIONS:

Publication Summary:

Scopus/ SCI-1

International Journals - 1

Conference - 2

H index - 1

i10 Index 1

<https://scholar.google.com/citations?hl=en&user=-OMLgHAAAAAJ>

RESEARCH WORK:

Phd Research Work:

- The main objective of the research work is to improve removal efficiency of pesticides by sonophotocatalytic degradation methods. In an attempt to increase the efficiency of decomposition of the impurities present in the wastewater and to improve the economics of the process.

Following are the objectives:

- To synthesize nano photo catalyst by suitable method.
- To study the degradation of a pesticides over the surface of prepared nano photo catalyst under UV to elucidate the photo catalytic activity and Characterizations of nano photo catalyst by various techniques.
- To assess the percentage degradation of contaminants using selected nano photo catalyst.
- To evaluate the effects of various parameters like initial concentration of pesticides, amount of catalyst, irradiation time, pH on photo catalytic degradation of pesticides;
- To study the degradation kinetics of the pollutants of concerns.
- To study the degradation kinetics of the pollutants of concerns & comparison the performances with other oxidation processes including UV/H₂O₂ (Photo Fenton reagents).
- The research is under the guidance of **Dr. Manik P.Deosarkar , (Reserach Center) Vishwakarma Institute of Technology , Pune**

SUBJECTS TAUGHT:

- Mass Transfer I and Mass Transfer II
- Advanced Separation Processes and Nanotechnology

FDP/STTP/SDP/WORKSHOPS ORGANIZED AS A COORDINATOR:

- FDP on “Recent Trends in Green Technology and Materials”, Sinhgad College of Engineering, Pune, 20-24 December 2021.
- FDP on Green Horizon: Advancement in Environmental Engineering”, Sinhgad College of Engineering, Pune, 01-05 April 2024

CONFERENCES ATTENDED:

- “International Conference on Energy and Environment(ICEE-2019)” Conference in Department of Chemical Engineering , Vishwakarma Institute of Technology, Pune in January 7 to 10, 2019
- “International Chemical Engineering” Conference in Department of Chemical Engineering Dr. B.R. Ambedkar National Institute of Technology, Jalandhar in September 16 to 19, 2021

FDP/STTP/SDP ATTENDED:

1. One week FDP on Sustainable Development in Chemical Processes in Chemical Engineering Department, K. K. Wagh Institute of Engineering Education and Research, Nashik on 21st May 2020 to 23rd May 2020
2. One day workshop on Introduction to Process Intensification in Chemical Engineering Department, K. K. Wagh Institute of Engineering Education on 9th June 2020
3. One week FDP on Sustainability in Process Engineering, Department of Chemical Engineering, Dr. Vishwanath karad , MIT World Peace University, Pune on 18th to 22nd December 2023

RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:

Institute Level (SCOE)

- Working as a Dept. Library Co-Ordinator of the Institute
- Working as an Dept internship Co-Ordinator of the Institute

Department Level (Chemical)

- Lab In charge Mass Transfer I &II Laboratory
- Teacher Guardian
- Departmental Time -Table Coordinator
- Departmental Internship Coordinator
- Project Guide for BE students
- Seminar Guide for TE Students
- Depart NBA Co-Ordinator for criteria 6
- Departmental Guest Lecture Coordinator

DECLARATION:

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: / / 2024

Signature