

Dr. NUSRAT PARVEEN



OBJECTIVE:

To find my space in this highly competitive technological arena and use my skill set for the growth of my organization and my own growth in the process.

PERSONAL INFORMATION:

- Father's name: Md. Habib
- Date of birth: 8th Sept., 1987
- Marital status: unmarried
- Sex : Female
- Nationality : Indian

Address for Correspondence: Dr. Nusrat Parveen

Guest Faculty
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EDUCATIONAL QUALIFICATIONS-

<u>EXAMINATION</u>	<u>BOARD</u>	<u>YEAR</u>	<u>PERCENTAGE</u>
HIGH SCHOOL	C.B.S.E	2003	86.4% (First Div.)
DIPLOMA IN COMPUTER ENGG.	A.M.U	2006	71% (First Div.)
B.TECH IN CHEMICAL ENGG.	A.M.U	2010	70% (First Div.)
M.TECH IN CHEMICAL ENGG.	A.M.U	2013	77% (First Div. with Hons.)
Ph.D. IN CHEMICAL ENGG	AMU	2019	AWARDED

DISSERTATION/PROJECT:

- Ph.D. thesis on “Development of Data-Driven Models for Chemical Engineering Systems”.
- M.Tech dissertation on “Modeling and Simulation of Multiple Effect Evaporator” using MATLAB in 2013.
- B. Tech Project on “Production of Maleic Anhydride from n-Butane” 2010.
- B.Tech Project on “Design of Multicomponent Condenser using Ms-Excel”2009.
- Diploma Engg. Project on “TEXTPAD using Visual Basics” in 2006.

WORK EXPERINCE:

- Teaching experience of 2.5 yrs as Guest faculty in the Department of Industrial Chemistry, AMU (Aligarh).
- Being the resident warden for 2yrs in S.N Hall and in ENGG. HALL FOR GIRLS AMU (ALIGARH).
- And also have served the hall many times as an acting Provost.
- Presently working as a Guest Faculty in the Department of Chemical Engineering, MJP Rohilkhand University, Bareilly (UP).

Reviewer of Scientific Journals:

1. Neural Computing and Applications, Springer Publisher (Impact Factor: 4.213)
2. Optimization and Engineering, Springer Publisher (Impact Factor: 1.824)
3. PLOS ONE, PLOS Publisher (Impact Factor: 2.740)

LIST OF PUBLICATIONS

A. Research Papers Published: 11

1. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2020. Artificial Intelligence (AI)-based Friction Factor Models for Large Piping Networks, *Chemical Engineering Communications* 207(2), 213-230, Taylor & Francis (Impact Factor: 1.578).
2. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2020. Development and Analysis of Data-Driven Models for Predicting the Bed Depth Profile of Solids Flowing in a Rotary Kiln, *Advanced Powder Technology*, 31(2), 678-694, Elsevier (Impact Factor: 3.548).

3. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2020. Comparative Analysis for the Prediction of Boiling Heat Transfer Coefficient of R134a in Micro/Mini channels using Artificial Intelligence (AI)-based Techniques, *International Journal of Modeling and Simulation* 40(2), 114-129, Taylor & Francis.
4. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2020. Support vector regression: A novel soft computing technique for predicting the removal of cadmium from wastewater, *Indian Journal of Chemical Technology* 27, 43-50, NISCAR (Impact Factor: 0.475).
5. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2019. Support vector regression (SVR)-based adsorption model for Ni (II) ions removal. *Groundwater for Sustainable Development* 9, 1-6, Elsevier.
6. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2019. Artificial intelligence (AI) - based reverse osmosis water desalination models, *Journal of Indian Geographical Committee of International Water Resources Association (IWRA)* 8(2), 44-50.
7. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2018. Modeling of flow boiling heat transfer coefficient of R11 in mini-channels using support vector machines and its comparative analysis with the existing correlations, *Heat and Mass Transfer* 55(1), 151-164, Springer (Impact Factor: 1.685).
8. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2018. Development and Analyses of Artificial Intelligence (AI)-based Models for the Flow Boiling Heat Transfer Coefficient of R600a in a Micro-scale Channel, *ChemEngineering* 2(27), 1-13, MDPI.
9. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2017. Development of SVR-based model and comparative analysis with MLR and ANN models for predicting the sorption capacity of Cr (VI), *Process Safety and Environmental Protection* 107, 428-437, Elsevier (Impact Factor: 4.718).
10. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2017. Support vector regression (SVR) prediction and analysis of the copper (II) biosorption efficiency, *Indian Chemical Engineer* 59(4), 295-311, Taylor & Francis (Impact Factor: 0.68).

11. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2016. Support vector regression model for predicting the sorption capacity of lead (II), *Perspectives in Science* 8, 629-631, Elsevier.

B. Conference Papers: 17

1. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2020. Support vector regression (SVR) based fluidized-bed model for coal gasification process, International conference on Advances in Chemical Science and Petrochemical (ACAPE-2020), 22-24 Feb, 2020, Department of Chemical Engineering and Petroleum studies, Aligarh Muslim University, Aligarh, India.
2. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2020. Artificial intelligence (AI)-based models for the prediction of cetane number of biodiesel, International conference on Emerging trends in chemical sciences & ETCS-ACS joint symposium 14-16 February, 2020, Department of Chemistry, Aligarh Muslim University, Aligarh, India.
3. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2020. Artificial Intelligence (AI)-based Adsorption Models for Aniline Removal from Wastewater, International Conference on Recent Advances in Engineering and Science (ICRAES-2020), University Polytechnic, Aligarh Muslim University, Aligarh, India, ISBN: 978-81-944663-1-4.
4. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2019. Development and Analysis of Adsorption Models for SDBS surfactant using soft computing techniques, 2nd International Conference on Chemistry, Industry and Environment (ICCIE-2019) Department of Applied Chemistry, Aligarh Muslim University, Aligarh, India.
5. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2019. Soft Computing Adsorption Models for Methylene Blue, National Conference on Emerging Trends in Chemical Sciences (ETCS-2019), Department of Chemistry, Aligarh Muslim University, Aligarh, India.
6. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2019. Development of artificial intelligence (AI)-based models for reverse osmosis water desalination unit, National Conference on Water Resources Management (WRM 2019), Department of Civil Engineering, AMU, Aligarh (India) ISBN: 978-93-86312-43-3.
7. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2018. Artificial Intelligence (AI)-based Models for the Prediction of Heat Transfer Coefficient of R600a, International

Conference on New Frontiers in Engineering, Science & Technology (08-12 JAN NFEST-2018), Delhi Technological University (DTU), New Delhi, India.

ISBN: 978-93-86238-41-2.

8. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2018. Soft computing models for predicting the friction factor in pipe flow, International Conference on Advances in Science & Technology (04-05 MAY ICAST-2018), Swami Keshvanand Institute of Technology, Management, Gramothan, Jaipur (India) ISSN:2278-2508.
9. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2018. Artificial intelligence (AI)-based biosorption models for Cr(VI) ions, International Conference on Sustainable Solutions in Industrial Pollution, Water and Wastewater Treatment, Department of Civil Engineering, Aligarh Muslim University, Aligarh, India.
ISBN: 978-93-88237-19-2
10. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2017. Soft computing model for predicting the removal of cadmium from wastewater using agricultural waste rice polish, International Conference on Emerging Areas of Environmental Science and Engineering (16-18 FEB EASE-2017), Guru Jambheshwar University, Haryana, India.
ISBN:9789384922351.
11. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2016. Development of support vector regression (SVR) based model for predicting the sorption capacity of Lead (II), International Conference on Recent Trends in Engineering and Material Science (ICEMS-2016), Jaipur National University, Jaipur, India, ISBN:978935254230.
12. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2016. Predicting the biosorption efficiency of arsenic (III) using support vector regression (SVR) model, International Conference on Recent Advances in Chemical Sciences, Department of Chemistry, Aligarh Muslim University, Aligarh, India.
13. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2016. Modeling the removal efficiency of Ni (II) ions from aqueous solutions with waste of tea factory using support vector machines, Indian Chemical Engineering Congress (27-30 DEC CHEMCON-2016), A.C. Tech, Anna university, Chennai, India.
14. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2016. Support vector regression (SVR) model to predict the biosorption efficiency of Arsenic (III), Mini-Symposium

on Computation and Optimization in the Sciences and Engineering, IIT-Kanpur, Feb 3-4, 2016.

15. Nusrat Parveen, Mohammad Abdul Hakim, 2015. Mathematical Modeling and Simulation of Multiple Effect Evaporator, International Conference on Recent Advances in Mathematical Biology, Analyses and Applications (ICMBAA-2015), Department of Applied Mathematics, Aligarh Muslim University, Aligarh, India.
16. Nusrat Parveen, Sadaf Zaidi, 2015. Mixed Matrix Membrane for Gas Separation, National Conference on Hydrocarbon, Energy and Environment (HEEcon-2015), Department of Petroleum Studies, Aligarh Muslim University (AMU), Aligarh, India.
17. Nusrat Parveen, Talat Fatima, 2012. Carbon Capture and Sequestration, National Conference on Hydrocarbon, Energy and Environment (HEEcon-2012), Department of Petroleum Studies, Aligarh Muslim University, Aligarh, Feb 25, 2012.

C. Chapter published in a Knowledge-based Book Edition:

1. Nusrat Parveen, Sadaf Zaidi, Mohammad Danish, 2016. Artificial Intelligence (AI) based tools for predicting the removal efficiency of heavy metals by adsorption, In: Inammuddin and Amir Al-Ahmed (Eds.), New Polymeric Composite Materials - Environmental, Biomedical, Actuator and Fuel Cell Applications, *Materials Research Forum (LLC)*, vol. 5, USA, ISBN 13: 978-1-945291-08-1, pp. 194-238.

CONFERENCES / WORKSHOPS / SEMINARS / SHORT TERM COURSES PARTICIPATED

1. AICTE Training and Learning (ATAL) Academy online FDP on “Waste Technology”, Z.H. College of Engineering & Technology, Aligarh, Feb 24-28, 2021.
2. AICTE Training and Learning (ATAL) Academy online FDP on “Systems Engineering”, Malaviya National Institute of Technology, Jaipur, Feb 1-5, 2021.
3. AICTE one week A.K.T.U sponsored FDP on “Sustainable Development of Green Chemistry in Chemical Engineering”, Rajkiya Engineering College Kannauj, UP, INDIA, Jan 28-01 Feb 2021.
4. AICTE Sponsored one-week online short-term Training Programme (STTP) on “Computational Fluid Flow and Heat Transfer (CFFHT) Phase-III”, Department of Chemical Engineering, Gayatri Vidya Parishad Of Engineering, Madhurawada, Vishakhapatnam, Nov 09-14, 2020.

5. AICTE Sponsored short term Training Programme-Webinar series 2 on “Wastewater Treatment and Characterization Techniques-Hands on Experience”, Department of Chemical Engineering, Manipal Institute of Technology, Manipal, Karnataka, 19-24 Oct, 2020.
6. AICTE Sponsored online one-week short term Training Programme (STTP) on “Computational Fluid Flow and Heat Transfer (CFFHT) Phase-II”, Department of Chemical Engineering, Gayatri Vidya Parishad Of Engineering, Madhurawada, Vishakhapatnam, Sep 21-26, 2020.
7. One Week Online short-term course on “Energy and its Applications” (E&IA), Department of Chemical Engineering, National Institute of Technology Srinagar, Jammu And Kashmir, India, Sep 08-12, 2020.
8. AICTE Sponsored online one-week short term Training Programme (STTP) on “Computational Fluid Flow and Heat Transfer (CFFHT) Phase-I”, Department of Chemical Engineering, Gayatri Vidya Parishad Of Engineering, Madhurawada, Vishakhapatnam, Aug 24-29, 2020.
9. One Week Online FDP on “Impacts of Nanomaterials Applications in the Environment”, Mepco Schlenk Engineering College, Sivakasi, Department of Physics, Tamilnadu, India, Aug 17-21, 2020.
10. One-week faculty development program (FDP) on “Advanced Materials Research”, BIET & Indian Ceramic Society, Hyderabad, June 15-19, 2020.
11. International online faculty development programme on “Recent Advances in Nanomaterials”, Department of science, St. Joseph College of Engineering, OMR, Chennai-119, June 4-6, 2020.
12. Pedagogical workshop on “Reactive and Non-Reactive systems”, Department of Mechanical Engineering, ZHCET, Aligarh Muslim University, Aligarh, November 16-20, 2018.
13. An International workshop on “Publishing in High Impact Journals”, ZHCET, Aligarh Muslim University, Aligarh, April 25th, 2017.
14. One week training program on “Nature Inspired Optimization Techniques and Research Paper Writing using LATEX software” Department of Electrical Engineering, ZHCET, Aligarh Muslim University, Aligarh, March 16-22, 2017.
15. One day workshop on Career Orientation Program for Research Scholars titled “Students Techniques to Reincarnate and embroider success”, Training and Placement

office (General) and Department of Chemical Engineering, Aligarh Muslim University, Aligarh, April 10, 2017.

16. Workshop on “Chemometrics: Application in Chemistry, Nanotechnology and Industry”, Department of Applied Physics and Industrial Chemistry Division, Aligarh Muslim University, Aligarh, In Collaboration with Siegwark India Pvt. Ltd., December 9-11, 2016.
17. One week Workshop on “Research Tools and Techniques”, Department of Petroleum Studies, Aligarh Muslim University, Aligarh, August 27-31, 2016.
18. One day workshop on “Introduction to Molecular Modelling using WINGAMESS”, Department of Chemical Engineering, Aligarh Muslim University, Aligarh, April 29, 2015.
19. One day workshop on “Advances in Bioprocess Engineering and Technology”, Department of Chemical Engineering, Aligarh Muslim University, Aligarh, Oct 13, 2014.
20. Two day workshop on “Process Modeling and Simulation”, Department of Chemical Engineering, Aligarh Muslim University, Aligarh, March 23-24, 2013.
21. One day National Symposium on “Nanotechnology for Chemical Application”, Department of Chemical Engineering, Aligarh Muslim University, Aligarh, Feb 27, 2013.
22. National Conference on “Nanoscience and Nanotechnology”, Department of Applied Physics, Aligarh Muslim University, Aligarh, March 10-12, 2012.

MEMBERSHIP OF LEARNED BODIES

1. Associate Member, Indian Institute of Chemical Engineers (IICChE), India.

INDUSTRIAL TRAINING

- Summer training at Indian Oil Corporation Ltd.(IOCL),Barauni
june 10,2008 to july 10,2008.

CAMPUS ACTIVITIES:

- Got many first prizes in 100m, 200m and 400m (relay) races.
- Placed first in the annual TECH-FEST in kho-kho.
- Placed first many times in cricket, volleyball also etc.
- Got first prize in movie-spoof in the session 2004-2005.

ACHIEVEMENTS:

- Qualified UP Tech entrance exam with 19 Ranked.
- Received Golden Jubilee Scholarship in 2009, 2010 and 2012 from IICHE(NRC) on merit basis.
- Received Maulana Azad National Fellowship (MANF) from 2014 to 2019 on merit basis.

LANGUAGE/COMPUTER SKILLS:

- Elementary knowledge in C, C++, MATLAB, R, MATHEMATICA, DTREG, MENDLEY, LATEX, and ORIGIN.
- Proficient in
 - MS Word
 - MS Excel
 - MS Power Point
- Fluent in reading and writing English, Hindi and Urdu.

OTHER INTERESTS:

- Listening music and watching movies.
- Playing games like badminton, basketball, volleyball, throwball, etc.
- Reading general magazines, internet searching.

DECLARATION

I consider myself familiar with chemical engineering aspect and also confident of my ability to work in a team. I hereby declare that information furnished is true to best of my knowledge.

Place: BAREILLY



Dr. NUSRAT PARVEEN