Dr. Sarita Kalla

Assistant Professor

Department of Chemical Engineering

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Academic Qualifications

➤ 2015 - 2019: Doctor of Philosophy (Ph.D.) - Chemical Engineering
Area - Azeotropic Mixture Separation using Air Gap Membrane Distillation
Institute - Malaviya National Institute of Technology (MNIT), Jaipur, CGPA - 9.33

- ➤ 2015: Master of Technology (M.Tech.) Process Modeling and Simulation University Aligarh Muslim University, Aligarh, Aggregate 81.42 (Honours)
- ➤ 2004 2008: Bachelor of Engineering (B.E.) Chemical Engineering University University of Rajasthan, Jaipur, India, Aggregate 80.02% (Honours)
- ➤ 2002 2004: Diploma in Pharmacy (D. Pharmacy)
 University University of Rajasthan, Jaipur, India, Aggregate 65.52%
- **2001-2002: Senior Secondary,** Aggregate 76%
- > **1999-2000: Secondary,** Aggregate 74%

Achievements

> Selected for the prestigious national award from the Indian Institute of Chemical Engineers (IIChE), Kolkata, India in the field of Membrane Science.

Name of Award:

IIChE Award for the Year 2019: Prof. Shymal Kanti Sanyal Memorial Award for the Best Ph.D. Thesis in the Area of Membranes Research with Significant Commercial Potential awarded by Indian Institute of Chemical Engineers (IIChE), India. The award was presented to me during the 72nd Annual Session-cum-Indian Chemical Engineering Congress (CHEMCON 2019) held from 16-19, December, 2019 at Indian Institute of Technology Delhi (IITD), New Delhi.

➤ **Research**, "Experimental and mathematical study of air gap membrane distillation for aqueous HCl azeotropic separation" published in <u>Journal of Chemical Technology</u> & <u>Biotechnology</u>, <u>Wiley Publications</u>, is among **the top 10% most downloaded paper** between January 2018 and December 2019.

- ➤ **Member of Board of Studies (BOS)** for Department of Petroleum Engineering, Bikaner Technical University (BTU), Bikaner, Rajasthan (From 2019 to Present).
- ➤ All India First (1st) Rank in the exam for the post of Lecturer Chemical Engineering, Technical Education Department conducted by Rajasthan Public Service Commission (RPSC), Ajmer.
- ➤ Certificate of Appreciation for outstanding contribution, coordination and participation during the Global Student Solar Ambassadors Workshop organized globally to commemorate the 150th Birth Anniversary of Mahatma Gandhi in association with Indian Institute of Technology (IIT), Bombay.
- > The Department of Science and Technology (DST), Govt. of Rajasthan has accepted a student project for financial assistance. The Project is on "Removal of heavy metals from industrial processed water using Bio-sorbent".
- ➤ Qualified **GATE 2014** with **87.59 percentile** in Chemical Engineering Branch conducted by Indian Institute of Technology (IIT), Kharagpur on behalf of the Department of Education, Ministry of Human Resources Development (MHRD), Government of India.
- Qualified GATE 2011 with 87.76 percentile in Chemical Engineering Branch conducted by Indian Institute of Technology (IIT), Madras on behalf of the Department of Education, Ministry of Human Resources Development (MHRD), Government of India.
- First rank holder in M.Tech. Entrance Exam (Chemical Engineering) conducted by Aligarh Muslim University (AMU), Aligarh in 2010. (66 marks out of 100)
- First rank holder in M.Tech. Course (Specialization in Process Modeling and Simulation) with aggregate 81.42 (In consecutive three semesters).

Research Papers Published

Paper Published in SCI /International Journals

- Appanu Sushvanth Reddy, <u>Sarita Kalla</u>, Z.V.P. Murthy, "Biomimetic membranes: Advancements and applications- A Minireview", Bioresource Technology Reports, 2022. Volume 18, 101047, 2022.
- ➤ <u>Sarita Kalla</u>, KmProttoy Shariar Piash, Oishi Sanyal, "Anti-fouling and anti-wetting membranes for membrane distillation", Journal of Water Process Engineering, Volume 46, 102634, 2022. (Impact Factor: 5.485)
- Appanu Sushvanth Reddy, <u>Sarita Kalla</u>, Z.V.P. Murthy, "Nano-particles enhanced hydrophobic membranes: High-performance study for dye wastewater treatment using membrane distillation", Journal of Water Process Engineering, Volume 46, 102610, April 2022. (Impact Factor: 5.485)
- ➤ Ketan Maru, <u>Sarita Kalla</u>, Ritambhara Jangir, "Dye Contaminated Waste Water Treatment through Metal-Organic Frameworks (MOFs) based Materials", New Journal of Chemistry, Vol. 46, 3054-3072, 2022. (Impact Factor: 3.591)
- ➤ Pragya Narayana Prasad, <u>Sarita Kalla</u>, "Plant-microbial fuel cells A bibliometric analysis", Process Biochemistry, Volume 111, Part 1, 2021, Pages 250-260. (Impact Factor: 3.757)

- Appanu Sushvanth Reddy, <u>Sarita Kalla</u>, and Z.V.P. Murthy, "Textile wastewater treatment via membrane distillation" Environmental Engineering Research, 2021; 27(5); 210228 doi: https://doi.org/10.4491/eer.2021.228 (Impact Factor: 2.507)
- ➤ <u>Sarita Kalla</u>, "Use of membrane distillation for oily wastewater treatment A review", Journal of Environmental Chemical Engineering, Volume 9, Issue 1, February 2021, 104641. https://doi.org/10.1016/j.jece.2020.104641 (Impact Factor: 5.909)
- ➤ <u>Sarita Kalla</u>, Sushant Upadhyaya, Kailash Singh, Rakesh Baghel, "Separation of HCl/water mixture using air gap membrane distillation, Taguchi optimization and artificial neural network", Chemical Product and Process Modeling, Vol. (1), Ahead of Print (Online), 2020. https://doi.org/10.1515/cppm-2020-0078. (Impact Factor: 0.95)
- Rakesh Baghel, <u>Sarita Kalla</u>, Sushant Upadhyaya, S. P. Chaurasia and Kailash Singh, "CFD Modeling of Vacuum Membrane Distillation for Removal of Naphthol Blue Black Dye from Aqueous Solution using COMSOL Multiphysics" *Chemical Engineering Research and Design*, *Elsevier*, 158 (2020), 77–88. DOI: 10.1016/j.cherd.2020.03.016 (Impact Factor: 3.739)
- ➤ <u>Sarita Kalla</u>, Sushant Upadhyaya, Kailash Singh, "Principles and Advancements of Air Gap Membrane Distillation A Review", *Reviews in Chemical Engineering*, Volume 35(8), pp. 817-859, 2018. doi: 10.1515/revce-2017-0112 (Impact Factor: 6.299)
- ➤ Sarita Kalla, Sushant Upadhyaya, Kailash Singh, Rakesh Baghel, "Experimental and mathematical study of air gap membrane distillation for aqueous HCl azeotropic separation", Journal of Chemical Technology & Biotechnology 94, no. 1 (2019): 63-78. doi: 10.1002/jctb.5766. (Impact Factor: 3.174) (One of the figures along with the affiliation of the paper has been selected as the cover page of the journal and also was among the top 10% most downloaded paper between January 2018 and December 2019)
- ➤ <u>Sarita Kalla</u>, Sushant Upadhyaya, Kailash Singh, Rakesh Baghel, "Development of Heat and Mass Transfer Correlations and Recovery Calculation for HCl Water Azeotropic Separation using Air Gap Membrane Distillation", *Chemical Papers, Volume 73*, pp-2449-2460, 2019. doi: 10.1007/s11696-019-00795-w. (Impact Factor: 2.097)
- Rakesh Baghel, Sushant Upadhyaya, S. P. Chaurasia, Kailash Singh, and <u>Sarita Kalla</u>, "Optimization of process variables by the application of response surface methodology for naphthol blue black dye removal in vacuum membrane distillation." *Journal of Cleaner Production*, Volume 199, pp. 900-915, 2018. doi: 10.1016/j.jclepro.2018.07.214. (Impact Factor: 9.297)
- ➤ <u>Sarita Kalla</u>, Sushant Upadhyaya, Kailash Singh, Rajeev Kumar Dohare and Madhu Agarwal, "A case study on separation of IPA-water mixture by extractive distillation using aspen plus" published in *International Journal of Advanced Technology and Engineering Exploration*, Volume 3(24), November, 2016. doi: 10.19101/IJATEE.2016.324004 (**Scopus**)
- ➤ Rakesh Baghel, <u>Sarita Kalla</u>, Sushant Upadhyaya, S.P. Chaurasia, Jitendra Kumar Singh, "Treatment of Sudan III Dye from wastewater using Vacuum Membrane Distillation" published in *International Journal of Basic Science and Applied Engineering Research*, vol.4(3), pp. 237-241, 2017.

Papers Presented/Published in International/National Conferences Proceedings

- Appanu Sushvanth Reddy, <u>Sarita Kalla</u>, Z.V.P. Murthy, "Simulation study of direct contact membrane distillation for the textile effluent treatment", presented at the Congress on Advances in Mechanical and Systems Engineering (CAMSE2021), NIT Jalandhar, July 17-19, 2021. The paper is accepted for publication in Lecture Notes in Mechanical Engineering (LNME), Springer, SCOPUS Indexed proceedings.
- Appanu Sushvanth Reddy, <u>Sarita Kalla</u>, Z.V.P.Murthy, "Modification of hydrophobic membranes using biomimicry for membrane distillation (MD) in wastewater treatment" presented in the Virtual International Conference on Chemical Sciences in Sustainable Technology and Development (IC2S2TD-2020), SVNIT, Surat, December 01-03, 2020.
- ➤ <u>Sarita Kalla</u>, Sushant Upadhyaya, Kailash Singh, "Mathematical Modeling of the Separation of HCl/Water Mixture using Argon Gap Membrane Distillation" presented in *Scopus indexed* International Conference on *Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE-2020)* organised by Department of Mathematics, Pandit Deendayal Petroleum University, Ahmedabad February 21-23, 2020.
- ➤ <u>Sarita Kalla</u>, Sushant Upadhyaya, Kailash Singh, Rakesh Baghel, "Taguchi Optimization Approach for Azeotropic Mixture Separation using Air Gap Membrane Distillation" accepted for oral presentation in 71st annual session of IIChE *Chemcon'18* organised by Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, (India), December 27-30, 2018.
- Sarita Kalla, Rakesh Baghel, Sushant Upadhyaya, Kailash Singh, "Effects of Operating Parameters and Development of Heat Transfer Correlation in Air Gap Membrane Distillation for Azeotropic Mixture Separation", accepted for oral presentation in *International Conference on Desalination (Inda-2018)* organised by NIT, Trichy and Indian Desalination Association (InDA) at Trichy, Tamil Nadu (India), April 20-21, 2018.
- ➤ <u>Sarita Kalla</u>, Sushant Upadhyaya, Kailash Singh, "Theoretical Assessment of the separation of HCl-Water azeotrope using Air-Gap Membrane Distillation", presented in 69th annual session of IIChE *Chemcon'16* organised by Chennai Regional Center of IIChE and Department of Chemical Engineering, AC Tech., Anna University, Chennai (India), December 27-30, 2016.
- Rakesh Baghel, <u>Sarita Kalla</u>, Sushant Upadhyaya, S.P. Chaurasia. "Removal of Basic Red 9 Azo Dye by using Flat Sheet PVDF Membrane in Vacuum Membrane Distillation" accepted for oral presentation in 71st annual session of IIChE Chemcon'18 organised by Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, (India), December 27-30, 2018.
- Aditya Anand, Abdul Quddoos, <u>Sarita Kalla</u>, "Removal of Methylene Blue from Aqueous Solution Using Mango Leaves", presented at 67th annual session of IIChE Chemcon'14, Punjab University, Chandigarh during December 27-30, 2014.

Book Chapter Publication

- > Sarita Kalla, Rakesh Baghel, Sushant Upadhyaya, Kailash Singh, "Membrane Distillation for Acidic Wastewater Treatment" in "Sustainable Water Treatment: Advances and Technological Interventions" Anirban Roy, Aidti Mullick, Siddartha Moulik (Editor), Scrivener Publishing, Wiley (2021) (Under proof reading).
- Rakesh Baghel, <u>Sarita Kalla</u>, Sushant Upadhyaya and S. P. Chaurasia, "Demonstration of Long-Term Assessment on Performance of VMD for Textile Wastewater Treatment" in "Sustainable Water Treatment: Advances and Technological Interventions" Anirban Roy, Aidti Mullick, Siddartha Moulik (Editor), Scrivener Publishing, Wiley (2021) (Under proof reading).
- ➤ Sushant Upadhyaya, Kailash Singh, S.P. Chaurasia, Rakesh Baghel and **Sarita Kalla**. "Vacuum Membrane Distillation for Water Desalination" in "Membrane Processes: Pervaporation, Vapor Permeation and Membrane Distillation for Industrial Scale Separations". S. Sridhar, Siddhartha Moulik (Editors) Published by **Wiley** (2018) pp.399 430.

Research Projects

➤ R & D Grant of the Institute (Rs. 9.75 Lacs) for "Study of air gap membrane distillation for seawater desalination using synthesized hydrophobic membrane and investigate the possibility of zero liquid discharge", for 2 years (2020-2022).

Patents filed/Granted with details

- Amol V. Sonawane, Dr. Sarita Kalla, Dr. C. M. Patel, Dr. Z. V. P. Murthy (2021), "MBR-Flat Sheet Module", No. 341280-001, Granted in March 2022.
- Amol V. Sonawane, Dr. Sarita Kalla, Dr. Z. V. P. Murthy (2022), "Direct contact membrane distillation module for desalination" No. 360754-001, Granted in April 2022.

Membership of Professional Societies

- Associate Member of the Institution of Engineers (India), AM 1985623
- Associate Member of Indian Institute of Chemical Engineers (IIChE), LAM 46237
- ➤ Life Member of Indian Desalination Association (InDA), LM 401.

Ph.D. Supervision

- ➤ Ms. Hinduja Vanshika Sanjay, Year 2021 Supervisors: Dr. Ritambhara Jangir and Dr. Sarita Kalla
- Mr. Ketan Maru, Year 2021
 - Supervisors: Dr. Ritambhara Jangir and Dr. Sarita Kalla
- Mr. Mahesh Kumar Prajapati, Year 2021 Supervisors: Dr. Areti Siviaiah and Dr. Sarita Kalla

M.Tech. Dissertation Guided

Completed (01):

Mr. A. Sushvanth Reddy, Year: 2019-2021
 Supervisors: Dr. Z. V. P. Murthy, Professor (HAG), and Dr. Sarita Kalla
 Title: Mathematical modelling and experimental study of direct contact membrane distillation for textile effluent treatment

Ongoing (01):

- Mr. Shubham Rahul Sawant, Year: 2020-2022 Supervisors: Dr. Z. V. P. Murthy, Professor (HAG), and Dr. Sarita Kalla
- Ms. Disha Gajipara, Year: 2021-2023 Supervisors: Dr. Z. V. P. Murthy, Professor (HAG), and Dr. Sarita Kalla

A couple of Ph.D. positions (Chemical Engineering) are available under me to pursue research in membrane separation processes, specifically in the focused areas of membrane distillation, wastewater treatment, process modeling, and simulation. Interested candidates can apply through the proper channel.

Invited Talks/Lectures Delivered

- ➤ Invited lecture on "MOF Based Membranes for Membrane Distillation Process" during oneweek online Short-Term Training Program (STTP) on "Organic-Inorganic Hybrid Materials (OIHM-2021)", October 04-08, 2021 at SVNIT, Surat.
- ➤ Deliver an expert lecture on 15 March, 2021 at International level organized by Institution of Mechanical Engineers, University of Sri Jayewardenepura, Srilanka.
- Session Chair, "International Conference on Advances in Sustainable Research for Energy and Environmental Management (ASREEM-2021)" organized by Department of Chemical Engineering, SVNIT, Surat, August 06- 08, 2021.
- ➤ Session Chair, "International conference on Advances in Chemistry and Chemical Engineering 2021" organized by Department of Chemical Engineering, SVNIT, Surat, April 16-17, 2021.
- ➤ Key-note speaker, "International Conference on Engineering and Technology: Smart Engineering", on "Application of membrane distillation for oily wastewater treatment: opportunities challenges and future research direction", at Parul University, Vadodara, November 6-7, 2020.
- Session Chair, "International Conference on Engineering and Technology: Smart Engineering, organized" by Parul University, Vadodara, November 7, 2020.
- ➤ Invited lecture on "Inherent Safety" during TEQIP III sponsored one-week Short-Term Training Program (STTP) on "Occupational Safety and Health Management Special

Emphasis on Covid-19", September 21-25, 2020 at SVNIT, Surat.

Invited lecture on "AGMD Experimentation and Numerical modeling", during Summer Internship Program (SIP) under TEQIP III on "Computational Techniques, Polymeric Membrane Fabrication, Wear and Friction of Materials", June 3–7, 2019 organized by Department of Chemical Engineering, MNIT, Jaipur.

Short Term Courses/ FDP/Workshop Organised

- ➤ Worked as Coordinator for organizing a one-week high-end online workshop on, "Application of Statistical Tools and Modelling in Engineering and Science," funded by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India under Accelerate Vigyan Scheme, March 07-13, 2022 at SVNIT, Surat.
- ➤ Worked as Coordinator for organizing one-week workshop on, "Computational Analysis on Mechanical and Chemical Processes using Ansys", July 12-16, 2021 at SVNIT, Surat.
- ➤ Worked as Coordinator for organizing one-week Short-Term Training Program (STTP) on, "Occupational Safety and Health Management Special Emphasis on Covid-19", Under TEQIP-III from, September 21-25, 2020 at SVNIT, Surat.
- ➤ Worked as Coordinator for organizing one-week Short-Term Training Program (STTP) on, "MATLAB and Its Applications in Engineering and Computational Research", Under TEQIP-III from February 17-21, 2020 at SVNIT, Surat.
- ➤ Worked as Coordinator for organizing, "Student Solar Ambassador (SSA) Workshop 2019" for celebrating 150th Birth anniversary of Mahatma Gandhi on 5 October, 2019 at Govt. Polytechnic College, Barmer, in association with Indian Institute of Technology (IIT), Bombay.

Journal Reviewer

- > Journal of Environmental Chemical Engineering (Elsevier Publisher, SCIE indexed)
- Reviews in Environmental Science and Bio/Technology (Springer Publisher, SCIE Indexed)
- ➤ Ecological Indicators (Elsevier Publisher, SCI indexed)
- ➤ Journal of Applied Polymer Science (Wiley Publisher, SCI indexed)
- Journal of Materials Today: Proceedings (Elsevier Publisher, Scopus)
- Processes (MDPI, SCIE indexed)
- ➤ Membranes (MDPI, SCIE indexed)
- Qualified reviewer of ACS publishers by completing the ACS Reviewer Lab Course.

Technical Program Committee Member

- ➤ Worked as primary evaluator in 'Toycathon 2021' conducted by the Ministry of Education Innovation Cell, Government of India and AICTE, New Delhi.
- ➤ Member of National Scientific Committee and Reviewer for 2nd International Conference on Advances in Material Science 2021, 16-17 November, 2021.

- ➤ Member of Technical Program Committee for *International Conference on Sustainable Development Goals and Gender Perspective (ICSDGAGP)*, 25-26 October 2021.
- ➤ Member of Technical Program Committee for *International Conference on Intelligent Energy Management in Smart Cities (ICIEMSC 2021)*, 25-26 November 2021.
- ➤ Member of organizing Committee for *International Conference on Water Desalination*, *Treatment & Management & Annual Congress of InDA (InDACON 2021)*, 19-20 March, 2021.
- ➤ Member of National Advisory Committee for *International Conference On Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, 23-24 April, 2021.

Professional Activities

- ➤ An article is published in Chemical Engineering Society, SVNIT Annual magazine, "Emanate-Eulogizing Chemical Engineering" titled "Green Chemistry and Sustainable Development" October 2021.
- ➤ Co-chairman of council of cultural secretary of SVNIT.
- Warden, Mother Teresa Bhavan (Girls Hostel), SVNIT.
- ➤ External Member of the Advisory Board meeting for Chemical Engineering Department of Chhotubhai GopalBhai Patel Institute of Technology (CGPIT), Uka Tarsadia University, Surat held on 25 January 2020.
- ➤ Worked as Nodal officer, REEP-2018 at Govt. Polytechnic College, Barmer.
- ➤ Member of Grievance Redressal Committee, Govt. Polytechnic College, Barmer and Govt. Engineering College, Barmer.
- ➤ Co-incharge of Cultural Activity Committee, Extra-Curricular Activity Committee, Discipline Committee, Purchase Committee, Govt. Polytechnic College, Barmer.
- ➤ Member of Anti-Ragging Committee, Women Sexual Harassment Committee, Govt. Polytechnic College, Barmer, and Govt. Engineering College, Barmer.

Short Term Courses/ FDP/Workshop/National Symposium Attended:

- Attended a one-week online Faculty Development Program in association with AICTE on, "New & Emerging Technology using Simulation tools" organized by the ARK Infosolutions Pvt. Ltd. and Ansys Software Pvt. Ltd., 28 June 02 July, 2021.
- Attended a one-week Faculty Development Program (FDP) on, "*Novel Materials*" organized by Indian Institute of Technology, Bhilai under AICTE Training and Learning Academy (ATAL) program, 05 July 09 July, 2021.
- > Completed *Journal Citation Reports (JCR) certification series-2021*, organized by Clarivate.
- Attended a one-week Faculty Development Program (FDP) on, "Green Technology Towards Sustainable Future"" organized by the Department of Chemical Engineering, S.V. National

- Institute of Technology, Surat, under AICTE Training and Learning Academy (ATAL) program, 26 October 30 October 2020.
- Attended a two-week Online Faculty Development Programme on "ICT Tools for Teaching, Learning Process and Institute" jointly organized by Electronics and ICT Academies held from 10th 21st August, 2020 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India.
- Attended a one-week Faculty Development Program (FDP) on, "**Design of Experiment & Artificial Neural Network**" organized by the Department of Chemical Engineering, S.V. National Institute of Technology, Surat, under AICTE Training and Learning Academy (ATAL) program, 4 8 November 2019.
- ➤ Attended a one-week training program on, "3D Printing & Robotics" conducted by Center for Electronic Governance (CEG), Jaipur, 4 February 8 February, 2019.
- Attended a two-week Short-Term Training Program (STTP) on, "Induction Training Program", conducted by Teachers Training Centre (TTC) and Learning Resources Development Center (LRDC), Department of Technical Education, Jodhpur, 25 June 6 July 2018.
- Attended a Five Days Short-Term Course (STC) on, "Membrane Processes for Water Purification and Reject Management", organized by the Department of Chemical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur, under TEQIP-III, September 2017.
- Attended a stakeholder's workshop on, "Community Water Purification Plants in Quality Affected Habitations of Rajasthan: Issues, Challenges & Way Forward", organized by the Department of Civil Engineering and Chemical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur during 27th July 2017.
- Attended a Five Days training program on, "Field Emission Scanning Electron Microscopy (FE-SEM)" organized by Materials Research Center, Malaviya National Institute of Technology (MNIT), Jaipur, 28 March 1 April 2017.
- Attended a National Symposium on, "Water Purification & Reject Management (WPRM-2016)", organized by Department of Chemical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur in association with WWSO, PHED Rajasthan, Indian Desalination Association (InDA) & Jaipur Regional Center of IIChE on 12th November 2016.
- Attended a Three Days workshop on, "Nature-Inspired Optimization", organized by Department of Electronics & Communication Engineering, Malaviya National Institute of Technology (MNIT), under the purview of TEQIP, $21^{st} 23^{rd}$ October 2016.
- Attended a one-day workshop on, "Technical Manuscript Preparation with LaTeX", organized by Department of Electronics & Communication Engineering, Malaviya National Institute of

Technology (MNIT), Jaipur, 19th September 2015.

- Attended a Seven Day's Short-term training program (STTP) on, "Writing Research Paper using LaTeX", organized by the Department of Physics, Mathematics and Computer Science, Govt. Women Engineering College, Ajmer, under TEQIP- II, October 2015.
- Attended a Two Day's National Workshop on "**Process Modeling and Simulation**" organized by Aligarh Muslim University (AMU), under TEQIP-II, March 2013.
- Attended a Seven Day's Short-Term Course (STC) for Faculty Development Program (FDP) on "**Application of MATLAB in Engineering**" organized by Malaviya National Institute of Technology (MNIT), under TEQIP-II, September 2013.

Professional Experience

October 16, 2019 - Present: Assistant Professor, Department of Chemical Engineering, S.V. National Institute of Technology, Surat, Gujarat.

January 2018 - October 12, 2019: Lecturer and in-charge Head, Department of Chemical Engineering, Govt. Polytechnic College, Barmer, Rajasthan (Technical Education Department, Govt. of Rajasthan).

Courses Taught: Heat Transfer, Chemical reaction Engineering-I, Fluid Mechanics, Mechanical Operation.

Responsibilities:

- Administrative responsibilities to lead, manage and develop the department.
- > Subjects distribution, classes time table compilation, conduction of examination, classes & attendance monitoring, propose regular updates in syllabus to board of academic council, setting up a panel for external and internal paper setters.

August 2008 - July 2010: Lecturer, Department of Chemical Engineering, Jaipur National University, Rajasthan, India.

Courses Taught: Heat Transfer, Chemical Reaction Engineering and Fluid Mechanics.

Projects

Doctoral Work:

Title: Mathematical Modeling and Experimental Study of Air Gap Membrane Distillation for Separation of HCl/Water Azeotrope.

Supervisors: Dr. Sushant Upadhyaya (Associate Professor, MNIT, Jaipur) and Dr. Kailash Singh (Professor, MNIT, Jaipur)

Master Course Project - 1

Title: Optimization of Thermal Cracker using Linear Programming.

Duration: Six Months (with studies during third semester)

Supervisor: Prof. (Dr.) Mohammad Idrees (Professor, AMU, Aligarh) and Dr. Syed Akhlaq Ahmad (Associate Professor, AMU, Aligarh)

Project – 2 (Dissertation)

Title: Dynamic Modeling and Simulation of Pressure Swing Adsorption Column

Duration: Six Months (with studies during fourth semester)

Supervisor: Dr. Syed Akhlaq Ahmad (Associate Professor, AMU, Aligarh)

Technical Skills

Programming Languages: MATLAB

Simulation Software: Aspen plus, Minitab, ImageJ©, COMSOL Multiphysics©

LATEX, Dia Software, OriginPro, draw.io

Languages: English (Spoken and Written) - Good, Hindi - Fluent, Marwadi (Regional Language)

Dr. Sarita Kalla