

# Ms. KANCHAN RAMESH SHAKYAWAR

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DATE OF BIRTH: 20<sup>th</sup> July, 1990.

## ACADEMIC RESEARCH

- 1 **Mathematical modeling and simulations:** Have developed mathematical models for various chemical unit operations and simulating them using MATLAB.
- 2 **Process Engineering:** Basic knowledge of performing process flow simulations using ASPEN PLUS software.
- 3 **Programming:** Have basic knowledge of MATLAB. Worked on image processing using MATLAB.

## EDUCATION

- 2015-2017 **Masters in Chemical Engineering and Technology**  
*Indian Institute of Technology, BHU, Varanasi.*  
(First class; CGPA=7.25/10)
- 2007-2011 **Bachelor of Technology in Petrochemical Engineering**  
*Dr. Babasaheb Ambedkar Technological University, Lonere.*  
(Second class; CGPA=6.43/10)

## WORK EXPERIENCE

- August 2012 – **Graduate Engineer Trainee**  
May 2014 *Evergreen Technologies Pvt. Ltd., Mumbai.*  
Responsibilities: (1) Designing, Sizing and Hydraulics calculations of Mist Eliminators/Demister pads and structured packing. (2) Review and approve various Auto Cad drawings for final manufacturing purpose. (3) Prepare offers and quotations in accordance with the sales engineer and client handling. (4) Recommending the size of demister pads and installation procedure in the process vessel efficiently. (5) Co-ordinate with the sales team and the clients. (6) Evaluate and suggest product and service solutions in line with the client needs and requirements in various chemical processes.

## PROJECTS (ACADEMIC)

- 2016-2017 M.Tech project - "*Bubble size distribution in gas-liquid bubble columns using Image Processing technique*".  
In this work, mainly I have focused on bubble columns as a multiphase system, since these are widely used in industries. Bubble size distribution (BSD) being one of the important design parameters in bubble columns, BSD along with bubble shape analysis is carried out in a rectangular bubble column with the help of Newtonian as well as non-Newtonian liquids and air as a gaseous system. Image processing technique has been employed to develop an automated process using MATLAB.
- 2010-2011 B.Tech project titled "*Atmospheric Distillation Column Design for Crude Oil & Simulation using Aspen Plus*".  
In this work, I have designed and simulated a distillation column for crude oil using Aspen plus. Simulation results are validated with the theoretical data to assure that the proposed design works very well for the defined problem.

## TRAININGS AND WORKSHOPS

1. One month industrial in-plant training in “Methyl Amine Plant” at Rashtriya Chemicals & Fertilizers Ltd. Chembur, Mumbai. (June – 2009)
2. Workshop on “Plant Operations” at Dr. B. A. Technological University, Lonere. (Dec. 2010)
3. **Second Prize** in paper presentation in National Level Technical Fest “**Chemfraternity - 2010**” at Dr. Babasaheb Ambedkar Technological university, Lonere.

## SKILLS

Technical	Aspen Plus.
Programming	MATLAB, Microsoft Excel.
Personal	Eager to learn new things, Hardworking.

## EXTRA-CURRICULAR ACTIVITIES

- 1 Provided free tuitions to poor students.
- 2 Vice-Secretary of Student’s Association at Dr. B. A. T. U., Lonere.
- 3 4 years Cadet Training at “Sea Cadet Corps”, Colaba, Mumbai.
- 4 Active member of PESA (Petrochemical Engineering Students Association) at Dr. B. A. T. U., Lonere.
- 5 Lead PESA in sports and cultural activities with great success.
- 6 Hostel secretary council member as additional maintenance secretary at IIT BHU.
- 7 Represented IIT-BHU in swimming.
- 8 Active member of NSS (National Service Scheme) for four years.