

# BUSHRA KHATOON

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## PROFILE SUMMARY

**Chemical Engineer and Research Scholar** with outstanding interpersonal skills and demonstrated ability to implement creative approaches flawlessly and successfully handle multiple tasks. Applying chemical engineering concepts and technological knowledge for the enhancement of the product, knowledge of patent searching, secondary research, and emerging technology.

## RESEARCH AREA

- Experimental and Numerical Study of Microfluidics Devices, Hydrodynamics (Newtonian and non-Newtonian Fluid) along with Mass Transfer and Chemical Reaction Engineering.
- Different Techniques and Methods for CO<sub>2</sub> Capturing Process.
- Study of Nano-fluid and its Applications.
- Hemodynamics (Blood Flow in Arteries).
- Numerical Study of Bubble Column using VOF Method.
- Numerical Study of Oxygen Steel Making Process using VOF Method.

## PUBLICATIONS

Patent: 01

Books: 02

Book Chapters: 03

Articles: 06

- SCI: 01
- SCOPUS: 05

## WORKSHOPS/CONFERENCES

Conferences: 07

Workshops/Short Term Courses: 15

## TRAINING/INDUSTRIAL EXPERIENCE

Web Designing

Urea/Ammonia Plant

## ACADEMIC EXPERIENCE

Worked as a Guest Lecturer at HBTU Kanpur for B. Tech and M. Tech Students, Specialization in Chemical Engineering during August 2017 to June 2018.

## PROJECTS

- Sound Pollution Level Study in Prayagraj and its Possible Conversion into Electrical Energy.
- Numerical Study of Acoustic and Induced Noise, Vibrations in T-channel.
- Numerical Study of Droplets Hydrodynamics in Oxygen Steel Making Process.
- Numerical Study of single Bubble motion in Newtonian liquid using VOF method.
- Production of Ethylene from the Dehydration of Ethanol.
- Design of Two Stage Ammonia Synthesis Reactor.

## **SOFTWARE EXPOSURE**

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- ANSYS 2021 R2 (FLUENT)
- Aspen Plus
- COMSOL
- Tech Plot
- Origin

## **INSTRUMENTAL EXPOSURE**

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- Syringe pump CO<sub>2</sub> Analyzers
- Conductivity Meter
- pH Meter
- Interferometer

## **ENTRANCE EXAM QUALIFICATION**

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GATE 2014

GATE 2017

## **EDUCATION**

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**Doctor of Philosophy:** Chemical Engineering, 2018-Contd., Thesis is about to submit, MNNIT-Allahabad, U.P.

**Master of Technology:** Chemical Engineering, 2015-2017, NIT-Rourkela, Odisha.

**Bachelor of Technology:** Chemical Engineering, 2010-2014, UIET-Kanpur, U.P.

## **PERSONAL INFORMATION**

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**Nationality:** Indian

**Languages:** Hindi and English

**Blood Group:** A+ve

**Marital Status:** Married

**Date of Birth:** 07 July, 1993