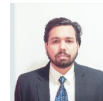




# TRIPATHI VISHAL ANIL



## ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	M.Tech in Chemical Engineering	Indian Institute of Technology, Delhi	8.826
2014	CBSE	ST. Xavier's High School, Basti	90.60%
2012	Maharashtra State Board	Holy Cross High School, Mumbai	81.64%

## DEGREES PRIOR TO IIT

Year	Degree	Institute	GPA / Marks(%)
2019	B.Tech in Chemical Engineering	Institute of Engineering & Technology, Lucknow	83.22%

## SCHOLASTIC ACHIEVEMENTS

- **Department Rank 2: Overall rank** achieved among **final year M.Tech students** of Chemical Engineering Department, IITD (2020)
- **Teaching assistant:** Selected in different courses & labs for semester-long assistantship in management of **100+ students** (Jul 2019-Present)
- **MHRD Scholarship:** Awarded monthly scholarship by MHRD, **Govt. of India** for securing **AIR 262** in Chemical Engg. in GATE (2019)
- **Annual College Award:** Received a **medal of honour** for being amongst **Top 5 Gate Rankers** in Chemical Engg. Dept., IET Lucknow (2019)
- **UP Govt. Scholarship:** Received new laptop as a scholarship for being amongst **Top 5 Class 12th Rankers** in Basti District (2014)
- **Trinity College London:** Certified for **excellent speaking and listening** skills after meriting in **Spoken English Examination** (2012)

## IIT DELHI THESIS

- **Modelling of Fluidized-Bed Reactor:** *under supervision of Prof K.K. Pant, HOD, Department of Chemical Engg., IITD* (2019-Present)
  - Development of **mathematical model** to analyze the variation of different parameter and predict the behavior of the reactor
  - Development of the **Two-phase Harrison and Davidson model** and **Three-phase Kunii-Levenspiel model** on **MATLAB**
  - Parameter optimization of different factors involved in **Catalytic decomposition of methane** to give CNTs and hydrogen

## INTERNSHIPS

- **NFL, Nangal Unit:** *Worked on the heat recovery system of flue gases venting from the primary reformer* (Jun 2018-Jul 2018)
  - Prepared detailed report of **Mass and Energy balance calculations** to analyze the amount of heat to be recovered from the flue gases
  - Evaluation of heat recovery from 6 convection coil and proposed **new methods for more heat recovery** with **cost estimation**
  - Overview of **Ammonia production system** consisting of four units namely, reforming, CO<sub>2</sub> removal, methanation, ammonia synthesis

## PROJECTS

- **Design and Synthesis of Zeolite catalyst for Alkylation Reaction:** *under supervision of Prof. K.K. Pant* (Jan 2020-Jun 2020)
  - Study on synthesis of **NaY and USHY Zeolites** and **reaction mechanism** for *alkylation of isobutane/butene mixture*
- **Dimethyl Ether synthesis, process design, and intensification:** *under supervision of Dr. Shalini Gupta* (Jul 2019-Nov 2019)
  - Designed completely **DME Synthesis plant** using **Process Engg. Techniques PTA, MER, GCC, Heat Integration, Economic analysis**
- **Syn Gas to Ethylene Conversion via Indirect Method:** *under supervision of Prof. Sreedevi Upadhyayula* (Jul 2019-Nov 2019)
  - Aimed at **Thermodynamic analysis** of the reaction using **Aspen Plus** to study the *variation of selectivity & conversion with temperature*

## TECHNICAL SKILLS

- **Programming Languages:** MATLAB, Python      **Softwares:** Aspen Plus, Microsoft office, Material Studio

## POSITIONS OF RESPONSIBILITY

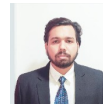
- **Overall Coordinator, Office of Carrer Services, IIT Delhi:** Selected after 4 stage selection process with **300+ applicants** (Jul 2020-Present)
  - **Spearheading a 6-tier team**, 18 Coordinators, 12 CTMs, 15 Executives, 31 Dept. Coordinators, 70+ Dept. Members, 300+ volunteers
  - Led **reforms on recruitment policies** to increase opportunities for students & companies to cope up with ongoing pandemic situation
- **Secretary, IET Josh (College Dramatics Team)** (Jun 2018-Jun 2019)
  - Guided the team through **10+ victories at state and national level competition** along with appreciation at **5+ social cause events**

## EXTRA CURRICULAR ACTIVITIES

- **Cultural Activities**
  - **First Runner Up:** *Pratibimb, Iris annual cultural fest of IIM Indore*, with **50+ performers from all over India** (2017)
  - **Winner:** *Halla Bol, Manfest-Varchasva annual cultural fest of IIM Lucknow*, amongst **20+ teams pan-India** (2016)
  - **Second Runner Up:** *Nukkad Natak, Thomso annual cultural fest of IIT Roorkee*, 2-stage competition amongst **30+ teams** (2016)
- **Sport Achievements**
  - **Fitness Enthusiast and Swimmer** (2019 - Present) || **Runner Up:** Kho-Kho, **Shauryotsava IET Lucknow** (2016 & 2017)
  - **Runner Up:** Volley Ball, **Inter-school Competition** (2012) || **Runner Up:** Long Jump, **Bharari Sports Fest** (2012)



# TRIPATHI VISHAL ANIL



## IIT COURSE

Degree	Institute	CGPA
M.Tech in Chemical Engineering	Indian Institute of Technology, Delhi	8.826

## COURSES DONE

Modelling Of Transport Process, Principles Of Thermodynamics,, Process Engineering, Petroleum Refinery Engineering, Hetero. Catalysis & Cata. Rea., Technical Communication For Chemical Engineers, Industrial Multiphase Reactors, Molecular Modelling And Simula, Advanced Transport Phenomena, Minor Project

## POSITIONS OF RESPONSIBILITY

- Overall Coordinator, Office of Career Services (June, 2020 - Present)