 **VINOD KUMAR**

M.Tech in Chemical Engineering

 HNO 329A VPO Behlana Chandigarh

 Email:vinodpandwar6@gmail.com

 Mb: 8800771698

** CARRIER OBJECTIVE**

 To strive for excellence and work in such an environment that will enhance my knowledge, where I can perform my skills accordingly.



**ACADEMIC DETAILS**

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| --- | --- | --- | --- |
| **Year** | **Degree / Exam** | **Institute** | **GPA/Marks (%)** |
| 2017 | Master of Technology in Chemical Engineering | Indian Institute of Technology Delhi | 7.00 |
| 2012 | Bachelor of Technology in Chemical Engineering | JMIT, Radaur  | 71.00 % |
| 2008 | CBSE | Kendriya Vidyalaya | 61.00 % |
| 2006 | CBSE | Kendriya Vidyalaya | 65.00 % |



**ACADEMIC PROJECTS**

 ***PROJECT: 1***

 **M.Tech Project**

 **Title :** Asphaltene Solid Surface Interaction

 **Description :** Study the adsorption of asphaltenes on the inorganic surfaces using Atomic force microscopy. Further separation of these asphaltenes from inorganic surfaces with bulk dissolution in solvents and using shear stresses has been performed.

 **Duration :** 1 year

 ***PROJECT:******2***

 **B.Tech Project**

 **Title :** Aspen Plus Simulation Of Esterification Process

 **Description :** Aspen Plus simulation of Esterification process using reactive distillation column. Optimization of the esterification process to maximize the yield of the process.

 **Duration :** 1 year.



**INTERNSHIPS**

 **INDIAN OIL CORP. LTD.** *(Jun, 2010 - Aug, 2010)*

 **Unit :** Diesel Hydrodesulphurization

 **Description :** Reduction of sulphur content from various diesel oil and gas oils by reaction with hydrogen.

 **Achievement :** Learn the process and equipments used in the industry.

 **INDIAN OIL CORP. LTD.** *(Jun, 2010 - Aug, 2010)*

 **Unit :** Paraxylene Complex

 **Description :** Production of paraxylenes from the naphtha feed.

 **Achievement :** Learn the process and industrial equipments use in the industry.



**WORK EXPERIENCE**

 **Company :** ALCHEM INTERNATIONAL LTD**.** (Jun, 2013 - Oct, 2014):

 **Designation :** Worked as chemical engineer in business developmentdepartment.

 **Job Responsibilities :**

* Coordinate with departments as production, project, purchase, R&D, quality control, quality assurance.
* Monitoring and operating industrial equipments for various processes i.e. batch distillation, liquid-liquid extraction.
* Heat load calculations.
* Optimization of the process for batch distillation.
* Material, heat balance and yield calculation for various processes.
* Pump head calculations and monitoring erection of equipments.



* Preparation of change control documents for different processes, internal audits of the change control.



**TECHNICAL SKILLS**

Aspen Plus,

Microsoft Excel,

Atomic Force Microscopy,

Soxhlet extraction.

**CO-CURRICULAR ACTIVITIES**

* Volunteer at Unit Operation workshop at IITD.
* Participation in Open House poster competition.
* 2nd Prize at Thapar University technical fest.
* 6 months Teaching Assistantship at Unit Operations lab IIT Delhi.



**EXTRA CURRICULAR ACTIVITIES**

* Group Dance performed at inter hostel IITD.
* Participation in Drama at RSD IIT Delhi.
* 1st prize in group dance at college fest.
* 1st prize at inter hostel group dance at IITD.



**OTHER INTERESTS**

Dance, Soccer, Trekking, Travelling