

KHOMVEER SINGH

Master of Technology in Chemical Engineering
Indian Institute of Science, Bangalore

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EDUCATION

Indian Institute of Science, Bangalore Master of Technology, Chemical Engineering	<i>July '19-Present</i> <i>CGPA: 8.1/10</i>
National Institute of Technology Karnataka, Surathkal Bachelor of Technology, Chemical Engineering	<i>July '14-June '18</i> <i>Overall GPA: 6.96/10</i>
Jawahar Navodaya Vidyalaya Pipersand, Lucknow Intermediate, CBSE Board	<i>July '13-June '14</i> <i>Percentage: 86.00</i>
Jawahar Navodaya Vidyalaya Raftabad, Bareilly Matriculate, CBSE Board	<i>July '11-June '12</i> <i>CGPA: 10/10</i>

PROJECTS

Microkinetic Modeling of Propane dehydrogenation *Ongoing M.Tech project*

Instructors: Prof. S.Venugopal (IISc Bangalore) and Prof. C.S.Laxminarasimhan (Shell Bangalore)

- A detailed microkinetic model is being developed to describe dehydrogenation of propane over catalyst surface
- Athena Visual Studio is being used as a tool for performing nonlinear parameter estimation to evaluate reaction constants with minimal cross-correlation and in thermodynamically consistent manner

Synthesis and characterization of silver Nano-materials and its application as antimicrobial material

Instructor: Prof. Jagdeesh Babu (NITK Surathkal) *August '17 - April '18*

- Silver nanowires of high quality were synthesized by a simple hydrothermal method
- The effect of reaction parameters like reactant concentrations and temperature on the final morphology and yield of the silver nanowires were studied.

TECHNICAL STRENGTHS

Modeling and Analysis	Python, Matlab
Software & Tools	Athena Visual Studio (for Parameter estimation and optimization) Microsoft: Excel, Word and PowerPoint

WORK EXPERIENCE

IIT-JEE Physics Faculty at Base Educational Pvt. Ltd, Bangalore *June '18 - June '19*

- Grasped basic concepts of physics and improved on my communication skills
- Recognized for teaching excellence and fostered a warm and fun atmosphere conducive to learning

Summer Internship at Steel Authority of India Limited (SAIL), Rourkela *May '17-June '17*

- Had an In-plant training at the Coke ovens and coal chemical plant
- Main features of coke making process and by-product recovery plant were understood with practical aspect and integrating theoretical knowledge

SCHOLARSHIPS AND ACADEMIC ACHIEVEMENTS

- Granted a scholarship for JEE-Advanced Entrance Exam by the NGO Dakshana Foundation, Pune for good performance in selection test conducted in class X *June '12-July '14*
- Received scholarship of Rs. 40,000 per year in under graduation by the Foundation for Excellence (FFE), Bangalore for good performance in class XII *July '14- June '18*

EXTRA-CURRICULAR ACTIVITIES

- Event coordinator at Engineer'16 NIK Surathkal
- Member of Dakshana Foundation's Alumni Network (DAAN) to help out scholars with IIT-JEE counseling procedure.